



CITY OF CAPE TOWN

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH



FOR THE YEAR 1973.



22501416937



CITY OF CAPE TOWN

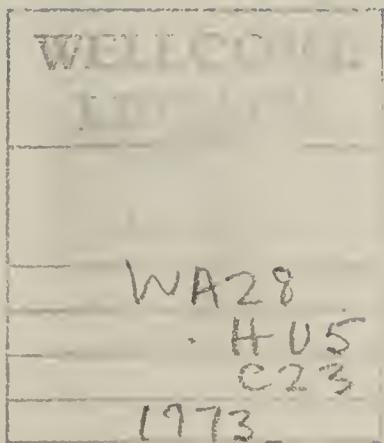
ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH



FOR THE YEAR 1973.



REPORT OF THE MEDICAL OFFICER OF HEALTH

CONTENTS

|  | PAGE |
|--|------|
| <b>LEADING STATISTICS</b>                          | 4    |
| <b>SECTION I – NATURAL &amp; SOCIAL CONDITIONS</b> | 5    |
| <i>Physical geography</i>                          | 5    |
| <i>Area</i>  | 5    |
| <i>Climate</i>                                     | 5    |
| <i>Social &amp; Economic</i>                       | 6    |
| <i>Water supply</i>                                | 6    |
| <i>Sewerage</i>                                    | 7    |
| <i>Markets</i>                                     | 7    |
| <i>Abattoir</i>                                    | 7    |
| <i>Wards</i>                                       | 7    |
| <b>SECTION II – VITAL STATISTICS</b>               | 8    |
| <i>Population</i>                                  | 8    |
| <i>Health indicators</i>                           | 8    |
| <i>Birth statistics</i>                            | 12   |
| <i>General mortality</i>                           | 14   |
| <i>Infant mortality</i>                            | 21   |
| <i>Maternal mortality</i>                          | 27   |
| <b>SECTION III – MATERNAL &amp; CHILD WELFARE</b>  | 28   |
| <i>Maternal child welfare centres</i>              | 28   |
| <i>Health visiting in the home</i>                 | 30   |
| <i>Health education</i>                            | 38   |
| <i>Notification of births</i>                      | 33   |
| <i>Supervision of midwifery</i>                    | 35   |
| <i>Puerperal fever</i>                             | 33   |
| <i>Ophthalmia</i>                                  | 33   |
| <i>Immunisation</i>                                | 33   |
| <i>School clinics</i>                              | 36   |
| <i>Chiropody service</i>                           | 36   |
| <i>Day nurseries</i>                               | 36   |
| <i>Protected infants</i>                           | 37   |
| <i>Social welfare</i>                              | 37   |
| <b>SECTION IV – DENTAL BRANCH</b>                  | 41   |
| <b>SECTION V – INFECTIOUS DISEASES</b>             | 43   |
| <i>Enteric fever</i>                               | 43   |
| <i>Diphtheria</i>                                  | 43   |
| <i>Scarlet fever</i>                               | 44   |
| <i>Cerebrospinal fever</i>                         | 45   |
| <i>Poliomyelitis</i>                               | 45   |
| <i>Influenza &amp; pneumonia</i>                   | 47   |
| <i>Leprosy</i>                                     | 46   |
| <i>Typhus</i>                                      | 46   |
| <i>Measles</i>                                     | 47   |
| <i>Whooping cough</i>                              | 46   |
| <i>Tetanus</i>                                     | 46   |
| <i>Infective encephalitis</i>                      | 45   |
| <i>Viral Hepatitis</i>                             | 46   |
| <i>Diarrhoeal diseases</i>                         | 48   |
| <i>Kwashiorkor</i>                                 | 50   |
| <i>Cancer</i>                                      | 50   |
| <i>Medical examination centre</i>                  | 51   |

REPORT OF THE MEDICAL OFFICER OF HEALTH

|   |     | PAGE  |
|---|-----|---|
| <b>SECTION VI – TUBERCULOSIS</b>                        | ... | 52  |
| <i>Notifications</i>                                    | ... | 52  |
| <i>Deaths</i>   | ... | 53  |
| <i>Anti-tuberculosis centres</i>                        | ... | 55  |
| <i>Sources of notification</i>                          | ... | 58  |
| <i>Hospitalisation</i>                                  | ... | 59  |
| <i>Care committee</i>                                   | ... | 60  |
| <i>Mass radiography service</i>                         | ... | 60  |
| <i>Langa Mass X-ray</i>                                 | ... | 61  |
| <b>SECTION VII – VENEREAL DISEASES</b>                  | ... | 62  |
| <b>SECTION VIII – CITY HOSPITALS</b>                    | ... | 67  |
| <i>City Hospital for Infectious Diseases</i>            | ... | 67  |
| <i>Brooklyn Hospital for Chest Diseases</i>             | ... | 68  |
| <i>Ambulance &amp; disinfecting station</i>             | ... | 70  |
| <i>Scabies &amp; pediculosis</i>                        | ... | 70  |
| <b>SECTION IX – ENVIRONMENTAL SANITATION</b>            | ... | 71  |
| <i>Establishment</i>                                    | ... | 71  |
| <i>Food, Drugs &amp; Disinfectants Act</i>              | ... | 71  |
| <i>Legal proceedings</i>                                | ... | 74  |
| <i>Trade licences</i>                                   | ... | 75  |
| <i>Food inspections</i>                                 | ... | 77  |
| <i>Municipal washhouses</i>                             | ... | 74  |
| <i>Food vending machines</i>                            | ... | 77  |
| <i>Stables</i>  | ... | 77  |
| <i>Abattoirs</i>  | ... | 77  |
| <i>Milk supplies</i>                                    | ... | 79  |
| <i>Housing</i>  | ... | 85  |
| <i>Demolitions</i>                                      | ... | 75  |
| <i>Air pollution</i>                                    | ... | 83  |
| <b>SECTION X – OTHER SERVICES</b>                       | ... | 87  |
| <i>Domiciliary medical service</i>                      | ... | 87  |
| <i>Hydrogen cyanide fumigation</i>                      | ... | 87  |
| <i>Free burials</i>                                     | ... | 87  |
| <i>Board of Aid</i>                                     | ... | 87  |
| <i>Drainage</i>   | ... | 87  |
| <i>Sewerage</i>   | ... | 87  |
| <i>Disposal of refuse</i>                               | ... | 88  |
| <b>SECTION XI – STAFF OF THE CITY HEALTH DEPARTMENT</b> | ... | 89  |
| <b>TABULAR STATEMENTS IN THE APPENDIX:-</b>             |     |   |
| Table A.  | –   | Summary of deaths ... ... ... 91  |
| Table B.  | –   | Deaths by causes (short list) and race ... ... 92                                   |
| Table C.  | –   | Deaths by causes (short list) and month of registration ... ... 93                  |
| Table D.  | –   | Death rates by causes (short list) for a series of years ... ... 94                 |
| Table E.  | –   | Deaths of infants under 1 year of age, by causes (short list) ... ... 96            |
| Table E. 1  | –   | Deaths of infants by month of registration ... ... 97                               |
| Table F.  | –   | Deaths of infants by legitimacy ... ... 98  |
| Table G.  | –   | Births and still-births by race, sex, legitimacy and wards ... ... 99               |
| Table H.  | –   | Births in institutions ... ... ... 100  |
| Table I.  | –   | Discontinued ... ... ... 100  |
| Table J.  | –   | Births, deaths, natural increase, infant deaths and corresponding rates ... ... 101 |
| Table K.  | –   | Infant mortality rates by causes ... ... 102  |
| Table L.  | –   | Estimated population and vital statistic rates since 1945 ... ... 104               |
| Table M.  | –   | Vital statistic rates for various towns ... ... 105                                 |
| Table N.  | –   | Notification of infectious disease by months ... ... 106                            |
| Table O.  | –   | Notification of infectious disease by age-groups ... ... 107                        |
| Table P.  | –   | Notification of infection disease by wards ... ... 108                              |
| <b>INDEX</b>  | ... | 110   |

# THE CORPORATION OF THE CITY OF CAPE TOWN

## REPORT OF THE MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1973

HIS WORSHIP THE MAYOR AND COUNCILLORS  
OF THE CITY OF CAPE TOWN.

Ladies and Gentlemen,

It is with pleasure that I present my second annual report concerning health conditions in the City of Cape Town, together with an account of the work conducted by the City Health Department during the year 1973. Throughout the year health conditions have been satisfactory.

### VITAL STATISTICS

The estimated population of the City based on the 1970 census was 770 780 (*242 600 White and 528 180 non-White*). This represents an increase of 18 320 or 2,4% over the previous year.

### BIRTHS

The number of births notified to the Department amounted to 22 041 being 71 less than the previous year. White births decreased from 4 092 to 3 780 while non-White births increased from 18 020 to 18 261. As there was a slight decrease in the number of Coloured births, the increase in non-White births occurred in the Bantu group where the birth rate was nearly three times that of the Whites. The overall birth rate did, however, decline slightly from 29,4 to 28,6.

### ILLEGITIMACY

Illegitimate births increased from 7 090 to 7 529 and this increase (439) was shared by all race groups, being 6,2% for all races (*White 1,3%, Coloured 6,2% and Bantu 6,9%*). Noteworthy, but depressing, is the fact that over 53% of all Bantu births were illegitimate, while among teenage mothers generally, illegitimate births amounted to 70%.

### DEATHS

The number of deaths recorded in the municipal area amounted to 6 644 (*2 281 White and 4 363 non-White*). The death rate was 8,62 (*9,40 for White and 8,26 for non-White*). It should be born in mind that the unavailability of information regarding deaths for portion of 1972 would make any comparisons with that year unscientific and unrealistic.

The increased number of suicides is a disturbing feature; this revealed a dramatic rise in suicides due to the use of drugs.

### INFANT MORTALITY

Infant deaths amounted to 885 (*48 White and 837 non-White*) with a mortality rate of 40,2 for all races (*White 12,7 and non-White 45,8*). Again, no comparison can be made with the previous year, but compared with past years, the present rates reveal a general improvement in this important indicator of health conditions.

### MATERNAL MORTALITY

There were three fatalities (*all Coloured*) which is similar to previous years and reflects a tendency of declining mortality from this cause.

### INFECTIOUS DISEASES

There were no fewer than 724 complicated measles admissions to the City Hospital, of which 352 were cases from outside the municipal area. This is the highest number of cases ever admitted in one year and follows an almost continuous rise over the years. Fifty deaths (1 White and 49 non-White) were recorded.

There was a welcome drop in the number of notifications of infectious hepatitis from 207 to 112, but there were, nevertheless, 6 deaths from this disease (1 White and 5 non-White).

Cerebrospinal fever, too, showed a decline, 42 cases (5 White and 37 non-White) having been treated.

Six cases of diphtheria and four of poliomyelitis were confirmed, but no deaths were recorded for either disease.

Gastro-enteritis is still the chief cause of deaths among non-White infants and 90% of all deaths from this disease occurred in children under the age of 5 years.

### TUBERCULOSIS

There were 1 429 pulmonary and 369 non-pulmonary cases of tuberculosis reported, compared with 1 359 and 341 respectively in the previous year. 191 pulmonary and 19 non-pulmonary deaths occurred. Many persons suffering from this disease are treated on an out-patient or domiciliary basis and this resulted in an increase of over 50% in the number of ambulatory injections administered.

The proportion of White: Coloured: Bantu cases has increased from 1: 7,3: 34 to 1: 7,3: 37,2 clearly demonstrating the extent of infection in the Bantu group. It is anticipated that the B.C.G. vaccination programme and improved socio-economic conditions will, in the long term, cause a reduction in the incidence of tuberculosis in this group.

The second mobile X-Ray unit was commissioned during the latter part of the year greatly facilitating deployment between clinics.

The mass radiography unit at Langa continues to do sterling work and no fewer than 25 000 persons were examined. As a result 289 cases of pulmonary tuberculosis were discovered compared with 253 cases the previous year (*an increase of 14,2%*).

### VENEREAL DISEASES

14 127 new cases attended the municipal clinics during the year. This figure was 1 001 more than the previous year.

New cases of syphilis rose from 3 550 to 3 984 and gonorrhoea from 8 098 to 8 571.

There was a slight decrease in the number of teenagers treated, which is encouraging.

### MATERNAL AND CHILD WELFARE

After providing a school medical service for over 40 years it was realised that what could be provided fell short of the need, and that the Day Hospitals Organisation was far better equipped to carry out this function. As a result the medical aspect was discontinued from the 1 May but Ophthalmic clinic sessions were retained at Salt River and even extended to a third session at Bokmakierie.

As a result of staff resignations, both the Behavior Advisory Clinics and the Chiropody Service were terminated during the year.

Worthy of special mention is the valuable field work that was carried out by the Maternal and Child Welfare Officer, Dr. Sundgren, and the staff of his Branch, in the University of Cape Town research project "Chronic Illness in the Community."

The Department, and this Branch in particular, provides valuable and essential material for practical teaching in Comprehensive and Community Medicine and the close co-operation with the University in this field is stimulating to all concerned.

### HEALTH EDUCATION

Staff training in all aspects of health education was continued as in the past and embraced all members in contact with the public. In addition, lectures were delivered for medical students.

Group discussions and lectures aided by films and other visual aids, were held at clinics, hospitals and schools, as well as at industrial premises and community centres.

### DENTAL

The generally low standard of oral hygiene of most of those attending the dental clinics, has left little time for conservative dentistry. Intensive health education will be necessary, particularly among school going children, to improve this facet of health. Advice regarding diet and the use of the toothbrush should form the basis of such education, and there is little doubt that this would show a long term benefit.

### ENVIRONMENTAL SANITATION

The health inspectorate remained below strength, although my recommendations for improvements to the salary structure resulted in a reduction in the number of vacancies towards the end of the year.

The Registration and Licensing of Businesses Amendment Ordinance 19 of 1972 which became effective on the 1 January, 1974, placed a considerably increased burden on the health inspectors. No less than 54 businesses and trades now require registration and licensing, and reports on the suitability from the public health point of view of premises where goods are traded or stored, are required.

Six properties were declared to be slums by the Slum Clearance Court. This will require the re-housing of some 70 persons by either the Council or the Department of Community Development.

### MILK CONTROL

Of the 189 milk producers registered with the Department, 182 have one or more bulk milk tanks installed on their farms.

The T.B. eradication scheme for the Western Cape was actively pursued by the Department of Agricultural Technical Services throughout the year. This resulted in the slaughter of 685 infected animals and dairymen received compensation for losses incurred.

The recent occurrence of Chlamydiosis among livestock is being investigated by the Division of Veterinary Services.

A large modern ice cream factory is in the process of construction and is expected to begin production in 1974.

### AIR POLLUTION

The appointment of a Smoke Control Officer to assist the Air Pollution Control Officer has enabled this section to commence the necessary survey for the proposal of Cape Town's first smokeless zone.

Negotiations were commenced with the U.C.T. and the C.S.I.R. with a view to the examination of air pollutants over greater Cape Town. The results of such a scrutiny will be invaluable in coming to grips with local atmospheric pollution which has certainly received its full share of publicity.

The fuel crisis which developed towards the end of the year could well effect the fuel and energy policy in South Africa and already there are indications of a swing back to coal.

### HOUSING

A total of 1 261 dwellings of various types were erected by the Council's Building Unit in addition to the conversion of 72 non-White dwellings from sub-economic to economic lettings.

A further block of 12 flatlets was constructed by the Citizen's Housing League.

New applications for accommodation totalled 2 260, bring the number of listed applicants to over 11 000 for all race groups of which 9 600 required economic accommodation.

### STAFF

Dr. Harold Ackerman (*affectionately known to his intimates as Sir Lancelot Spratt*) retired as Tuberculosis Officer on the 16 July after 24 years in the department. His unique professional energy, his fund of stories and dry sense of humour will assure him of success in any venture he pursues in his retirement. He leaves us with a wealth of happy memories.

### ACKNOWLEDGEMENTS

I record with much appreciation and thanks the loyal support and assistance so willingly given to me at all times by members of my staff. I wish also to thank Heads of Departments and other officials for their co-operation and assistance during the year and the Municipal Service Commission for their helpfulness and understanding in regard to staff matters, particularly refundable posts. To the Chairman and Members of the Amenities and Health Committee, as well as other members of the Council, I also offer my thanks for their consideration and support at all times.

Yours faithfully,

R.M. LANGERMAN

M.B. Ch.B D.P.H. F.R.S.H.

MEDICAL OFFICER OF HEALTH

City Health Department  
"Libertas"  
Hertzog Boulevard  
Foreshore  
CAPE TOWN  
8001

## MUNICIPALITY OF THE CITY OF CAPE TOWN

LEADING STATISTICS, YEAR ENDED 31 DECEMBER 1973

|   | WHITE   | NON-WHITE | ALL RACES |
|---|---------|-----------|-----------|
| <b>AREA:- 28 170,80 Hectares/108,77 sq. Miles</b> |         |           |           |
| Total population                                  | 242 600 | 528 180   | 770 780   |
| Birth rate  | 15,6    | 34,6      | 28,6      |
| Death rate  | 9,4     | 8,3       | 8,6       |
| Infant mortality rate                             | 12,7    | 45,8      | 40,2      |
| Maternal mortality rate                           | —       | 0,2       | 0,1       |

All the above rates are annual and expressed as per 1,000 population of each class, except the infant and the maternal mortality rate, the former being expressed as per 1 000 live births occurring during the year (*corrected*) and the latter per 1,000 live and still births.

## RAINFALL

|                     |                         |
|---------------------|-------------------------|
| Amount in MM/Inches | 321,0 mm / 12,64 inches |
| No. of rainy days   | 95                      |

The total rainfall of 321,0 mm. is the lowest recorded at the airport since opening in 1957. The previous lowest was 361,5 mm. in 1971.

The highest annual rainfall since 1957 was 716,4 mm. in 1962.

## TEMPERATURE

|         |         |    |          |                  |
|---------|---------|----|----------|------------------|
| Maximum | 35,5°C  | on | 20 April | (Average 23,1°C) |
| Minimum | - 0,3°C | on | 28 July  | (Average 11,7°C) |

OF THE

## MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1973

## SECTION 1. NATURAL AND SOCIAL CONDITIONS.

## PHYSICAL GEOGRAPHY

Cape Town is situated at the northern end of the Cape Peninsula. The Peninsula lies off the west coast of the mainland of South Africa, extending from north to south a distance of about 33 miles and attaining a maximum width of about ten miles. Its average width east and west may be estimated at five miles. The northern half of its eastern side is connected with the mainland by a wide low-lying sandy isthmus, known as the Cape Flats, which separates Table Bay to the north-west from False Bay to the south-east. The narrowest part of the isthmus measures about twelve miles from sea to sea.

The backbone of the Peninsula is a mountain range which extends from Table Mountain (3,549 ft) at its north end to Cape Point at the south. The land slopes from the mountains to the sea or, where the isthmus joins the Peninsula, to the Cape Flats. While much of the Peninsula area lies at heights of over 1,000 ft., most of the isthmus does not reach 100 ft., and a rise of sea level would convert the Peninsula into two islands nearly equal in area.

From the bottom of the slope below the face of Table Mountain there extends down to Table Bay a bed of alluvial deposits, on which a good deal of old Cape Town is built. At the shore of the Bay there is a considerable area of land that has been reclaimed from the sea as the result of the construction of the new harbour.

The City of Cape Town consists of a central portion which, before the City extension of 1913, constituted the whole Municipality and is sometimes known as Cape Town proper or central Cape Town (*Wards 2–6*), and a chain of suburbs on either hand. The central portion lies in the amphitheatre which, extending down to Table Bay towards the north-east, is backed on the other sides by the precipitous face of Table Mountain and on its outlying masses, Devil's Peak on the east and Lion's Head and Signal Hill on the west. It therefore lies between the mountain and the sea, and, unlike the centre of most cities, is not surrounded by its suburbs.

The suburbs extend beyond this amphitheatre on either hand. To the west, marine suburbs known as Green Point, Sea Point, Camps Bay and Bakoven (*Wards 1, 2 and 3*) lie along the Atlantic sea board for a distance of about six miles curving with the coast in a southerly direction. They are on the seaward slopes of Signal Hill and Lion's Head.

To the east the 'Southern Suburbs' (*Wards 7–9 and 10–17*) extend around Devil's Peak and are stretched for about sixteen miles along the road and suburban railway line which after rounding Devil's Peak pass along the eastern side of Table Mountain in a southerly direction to the shore of False Bay. Woodstock and Salt River (*Ward 8*), next to Cape Town proper, slope down to Table Bay and at the other end Muizenberg, St. James and Kalk Bay (*Ward 17*) lie on the False Bay coast. The string of suburbs between, known successively as Observatory, Mowbray, Rosebank, Rondebosch, Newlands, Claremont, Kenilworth, Wynberg, Plumstead, Diep River, Heathfield, Retreat and Lakeside, lie on the eastern slopes of the Mountain range, and, to a greater extent, on the Cape Flats below this range.

The Municipality extends over the Cape Flats to a varying depth of up to 8 km. and is today being extensively developed for industrial and residential purposes. Some of the largest non-White residential townships have within recent years been laid out in these areas and are served by the Cape Flats railway and the Nyanga link which form loops lying in a more easterly direction than the main suburban line.

There is an extension of the Municipality beyond Salt River in a north-easterly direction on the Flats bordering Table Bay. This (*Ward 9*) includes the suburbs of Maitland, Brooklyn, Rugby, Kensington and Thornton which, together with other townships lying outside the municipal area of the city and following the main road to the north are known as the 'Northern Suburbs'.

## AREA

The area of the Municipality of Cape Town on 31 December 1973, comprised 28 170,8 hectares (108,8 square miles). The length of the main road passing through the municipality from the boundary at Bakoven to that at Clovelly is about 40 kilometres (26 miles).

## CLIMATE

Cape Town is situated in Lat. 33°55'S., Long. 18°25'E.. Its climate is largely determined by the fact that during the summer season the prevailing winds are south-easterly and in the winter north-westerly; and that the western shore of the Cape Peninsula is washed by a cold current from the Antarctic.

There is an average of nearly three thousand hours of bright sunshine per year, and the temperature is equable. The rainy season is in the winter, but occasional showers also occur in the summer months of December, January, February and March. Those areas of the municipality situated on the two seabards are much frequented by holiday-makers from other parts of the country. To the attractions of the climate are added the great natural beauties of the Peninsula and its hinterland.

From the point of view of public health Cape Town belongs to the temperate zone, and tropical diseases, except for imported cases, are entirely absent. The state of health and the mortality statistics of the White portion of the population are much the same as would be expected in a socio-economically advanced European city.

#### SOCIAL AND ECONOMIC CONDITIONS

Thirty-one per cent of the total population of the Municipality of Cape Town (*including the Bantu Townships*) of over 770 780 consists of Whites or 'Europeans'. The other 69 per cent is commonly designated as 'non-Whites'. 81 per cent of these non-Whites are of the mixed race known as Cape Coloured, the remainder consists of Bantu and Indians.

The Cape Coloured are largely the descendants of the slaves of earlier days, whose emancipation was completed in 1835. Their ancestors of the eighteenth century and earlier were mainly Europeans, Hottentots, blacks from Mozambique, Madagascar and other parts of Africa, and East Indians from the Dutch East Indies. In more recent years they have received additions from White, Bantu and other stocks.

There is one section of the Cape Coloured, Moslem in religion, known as 'Malays' who are more immediately descended from the Dutch East Indies. Though they possess a larger infusion of this strain, they are much mixed with the other elements present in the Cape Coloured.

The social and economic conditions of the Cape Coloured are on the whole unsatisfactory. A section of them are skilled tradesmen and earn good wages but the majority are unskilled labourers and many of the men earn less than R20 a week when in full employment. The position is aggravated by the large size of their families. The family income may be augmented where possible by earnings brought in by the wife and children. The measures taken for the prevention and relief of distress are inadequate, and there is no compulsory insurance against sickness. There is much malnutrition, and housing accommodation apart from municipal schemes is expensive and poor. The social and cultural level is low but is showing signs of steady improvement. The principle of compulsory education does not as yet apply to the non-Whites. The illegitimacy rate is high and venereal disease is rife. The social contrast between Whites and Cape Coloured can be expressed by the statement that whereas in the Whites it is only a small minority that belong to the depressed classes, in the Coloured it is the majority. The same contrast is seen in housing conditions; it is a small minority of Whites who live in overcrowded conditions, but a majority of the Coloured.

The Bantu constitute only 17 per cent of the non-Whites. They live in the municipal Bantu townships of Langa and Guguletu, or if in domestic service, in their employers' homes. Many of the Bantu are males from the Bantu homelands who still retain their link with the territories and usually return there eventually; but there is an increasing population of detribalised Bantu who are permanently resident in Cape Town and live here with their families. Their social and economic conditions are on the whole worse than those of Coloured people but their housing in municipal Bantu townships is better.

The Indians total 10190 in number. They are nearly all traders, and are better off than the Cape Coloured. Some of them are making good progress in business and are well-to-do.

There are parts of the city where the inhabitants are mainly non-White and other parts that are exclusively occupied by Whites and their non-White servants. The various sections of the community, however, are to a great extent inter-mingled, and there is nothing approaching complete segregation of the races. The State Department of Community Development has commenced to unscramble the present hotch-potch of White and non-White residential areas. This activity is placing additional strains on the local authority's attempt to reduce overcrowding and clear the many slums in the city area, as the requirement by this State Department for newly constructed municipal economic and sub-economic homes, amounts to as much as 50 per cent. The geographical distribution of White and Coloured is very much the same as that of well-to-do and poor in a European town. In the planning of housing under the Housing Act the estates for Whites are separate from those for non-Whites and this will contribute to progressive and complete residential separation.

Striking contrasts are presented by the vital statistics of the different races, which will be found in the next section of this report.

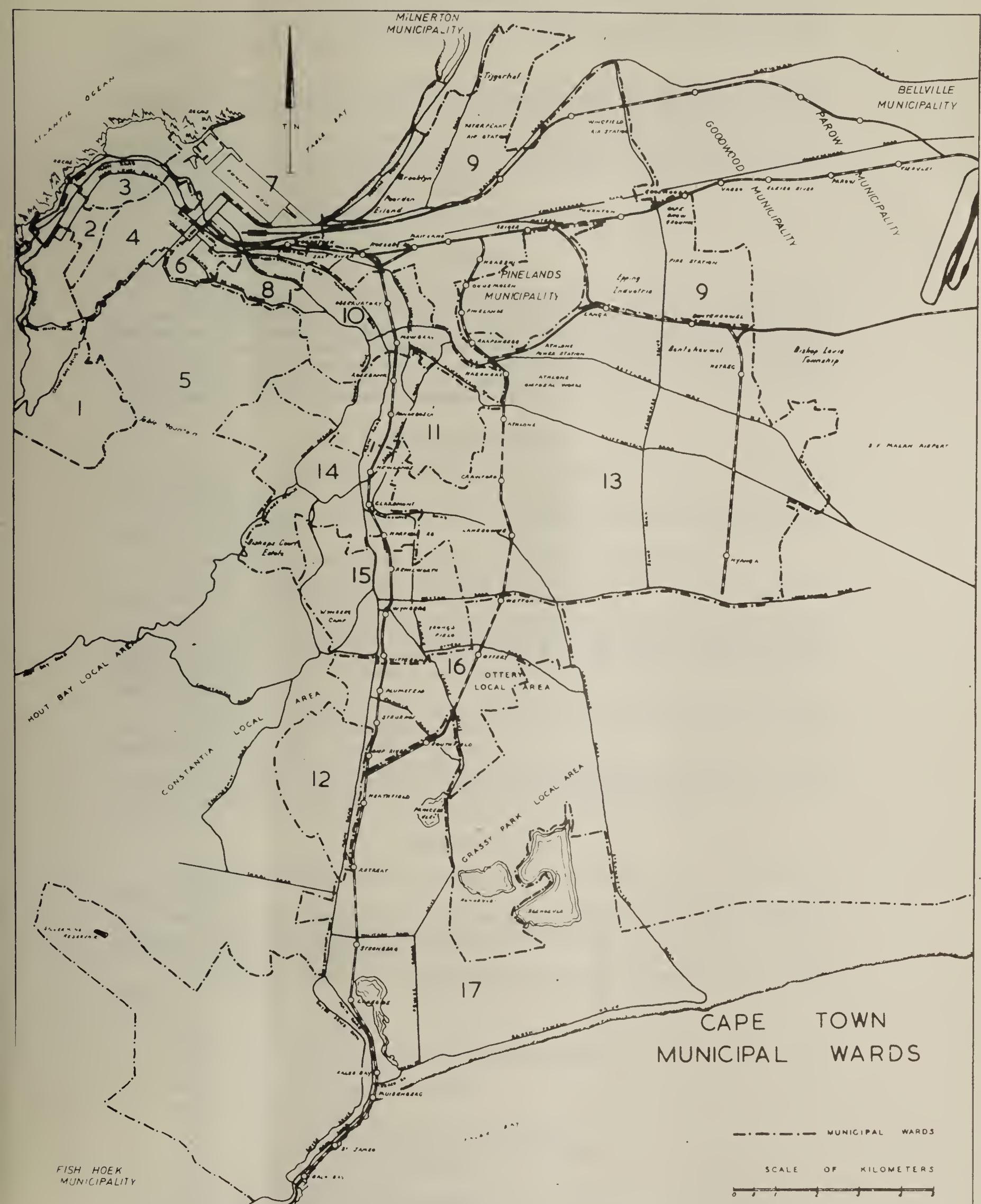
#### WATER SUPPLY

The following are the main sources of supply:

|                                      |         |            |
|--------------------------------------|---------|------------|
| Voëlvlei Dam .....                   | 162 739 | megalitres |
| Wemmershoek Dam .....                | 58 643  | megalitres |
| Steenbras Dam .....                  | 34 290  | megalitres |
| 5 Reservoirs on Table Mountain ..... | 2 377   | megalitres |

During 1973 the daily consumption varied between a maximum of 481 megalitres during the summer and a minimum of 155 megalitres during the winter. The average daily consumption during the year was 318 megalitres.

Seventeen other dependant local authorities obtain their supplies of water from the Cape Town undertaking.





### SEWERAGE

Practically the entire built-up area of the Municipality is provided with waterborne sanitation.

The principal sewage treatment plant is located at Athlone with a dry weather flow of 100 megalitres per day. The Athlone plant is now completely surrounded by residential areas and is only 8 kilometres from the centre of the City.

Approximately 23 megalitres of sewage from the Wynberg-Clovelly area plus approximately 14 megalitres of sewage from Guguletu, Nyanga and the developing areas of the Cape Flats are treated in recirculated photosynthetic oxidation ponds at the Strandfontein Road Cape Flats Sewage Treatment Works.

The Council on 31 July 1973 resolved to incur the expenditure of R21 million for the modernisation of the above works. The expenditure provides for improvements at Athlone, which will become primarily a centre for treatment of industrial effluent, and the establishment of a modern works at the Cape Flats, which will treat mainly domestic sewage.

The ultimate capacities of these works will be 80 and 220 ml/day respectively.

### MARKETS

The Wholesale and Early Morning Market at Epping was designed specifically to meet the particular needs of Cape Town, the main hall is believed to be the biggest structure of its kind in Southern Africa. Ancillary buildings consisting of a three-platform railway terminal, administrative block, special auction block for graded and standardised products, loading platforms for 348 lorries, and minor facilities such as restaurant, rest rooms, etc. have also been built, and each one of these sections has been designed for extension when the need arises. A fulltime Health Inspector from the Health Department is responsible for the checking and control of all food-stuffs passing through this market.

### MUNICIPAL ABATTOIR

The abattoir is geared at the moment to slaughter 850 adult cattle, 150 calves, 5 300 sheep and goats and 600 pigs a day.

It is a regional abattoir and provides meat for Greater Cape Town and most of the remaining portion of the Western Cape.

During 1973 the total value of meat handled at the abattoir was R48 723 000.

Condemned material and blood is rendered by the by-products plant into carcass meal, tallow and blood meal. During 1973 R250 000 worth of by-products was realised.

Since completion of the abattoir in 1966 many improvements have been made such as the demolition of old buildings, road building, fencing and improving of parking facilities. Improvements effected recently include the addition of a second mechanical line for the slaughter of sheep, building of additional lairages and ablution facilities, enlarging of the by-products plant and developing a well equipped and staffed diagnostic laboratory.

The Director and Assistant Director of the Abattoir are both veterinarians. They are assisted in their meat inspection and veterinary duties by three veterinarians. In addition 26 meat inspectors are employed on meat inspection and other hygiene duties.

A number of final year veterinary students from Onderstepoort saw vacational practice at the abattoir as part of their training in Veterinary Public Health and Food Hygiene and fourth year medical students as well as student health inspectors received practical training in meat hygiene.

### MUNICIPAL WARDS

The City is divided into 17 wards, varying in area from the smallest (*Ward 2 – Sea Point*) to the largest (*Ward 17*).

As from 1 January 1973, ward 12, enclosing Athlone, Bonteheuwel, Hanover Park and Guguletu was redesignated ward 13 and the area Bergvliet-Meadowridge became the new ward 12. The boundaries of wards 13, 15, 16 and 17 were also modified.

The following is a guide to the more important areas which may be identified on the accompanying map.

|         |  |
|---------|--|
| Ward 1  | Camps Bay  |
| Ward 2  | Sea Point  |
| Ward 3  | Three Anchor Bay, Green Point and Mouille Point      |
| Ward 4  | Tamboerskloof  |
| Ward 5  | Oranjezicht and Vredehoek                            |
| Ward 6  | Central area   |
| Ward 7  | Harbour Area   |
| Ward 8  | Lower Woodstock and part of Salt River               |
| Ward 9  | Maitland, Brooklyn, Kensington and Thornton          |
| Ward 10 | Observatory and Mowbray                              |
| Ward 11 | Rondebosch   |
| Ward 12 | Bergvliet and Meadowridge                            |
| Ward 13 | Athlone, Langa, Guguletu, Crawford and Lansdowne     |
| Ward 14 | Newlands and part of Claremont                       |
| Ward 15 | Kenilworth and Wynberg                               |
| Ward 16 | Plumstead, Southfield, Heathfield and part of Ottery |
| Ward 17 | Heathfield to Clovelly                               |

## SECTION II – VITAL STATISTICS

The vital statistics in this report refer to the Municipality of Cape Town and are for the calender year 1973.

Births notified to the department are attributed to the month of occurrence, deaths to the date of registration. Both sets of figures have been corrected for inward and outward transfers. The compilation of registered births has been discontinued.

Deaths are shown as 'crude' or 'uncorrected' and include all registrations as having occurred in the Municipality of Cape Town with the addition of inward transfers. 'Corrected' refers to the foregoing after the deduction of outward transfers.

During the year 1972, information regarding deaths was unobtainable for a period of 5 months; the figures in brackets indicate the corresponding annual total estimated by proportion.

Information relating to deaths is extracted from the records and by courtesy of the Minister of the Interior.

In the table on page 104 of this report, the record of vital statistical rates is set out for a series of years.

The Bantu racial group includes all Bantu whether living in the City or in the townships of Langa and Guguletu.

### POPULATION

The estimated population of the municipality of Cape Town for the year under review and the previous year is shown in the following table. Except in the case of the Bantu, it is calculated for the middle of the period (30 June) from the final figures of the census of 1960 and 1970.

Changing conditions relating to the presence of Bantu in the City have rendered preferable the use of the tally of the Bantu population known to the Bantu Administration of the Council, as being more factual than calculations based on the census findings.

| Race      | 1972   |         |         | 1973   |         |         |
|-----------|--------|---------|---------|--------|---------|---------|
|           | Males  | Females | Persons | Males  | Females | Persons |
| White ... | 113750 | 125300  | 239050  | 115440 | 127160  | 242600  |
| Coloured  | 193830 | 218510  | 412340  | 201070 | 226670  | 427740  |
| Bantu ... | 60860  | 30290   | 91150   | 60330  | 29920   | 90250   |
| Asiatic   | 5160   | 4760    | 9920    | 5300   | 4890    | 10190   |
| Non-White | 259850 | 253560  | 513410  | 266700 | 261480  | 528180  |
| All Races | 373600 | 378860  | 752460  | 382140 | 388640  | 770780  |

The following is the population of the two Bantu Townships, included in previous table, based on an enumeration made at the end of June 1973, by the Township authorities.

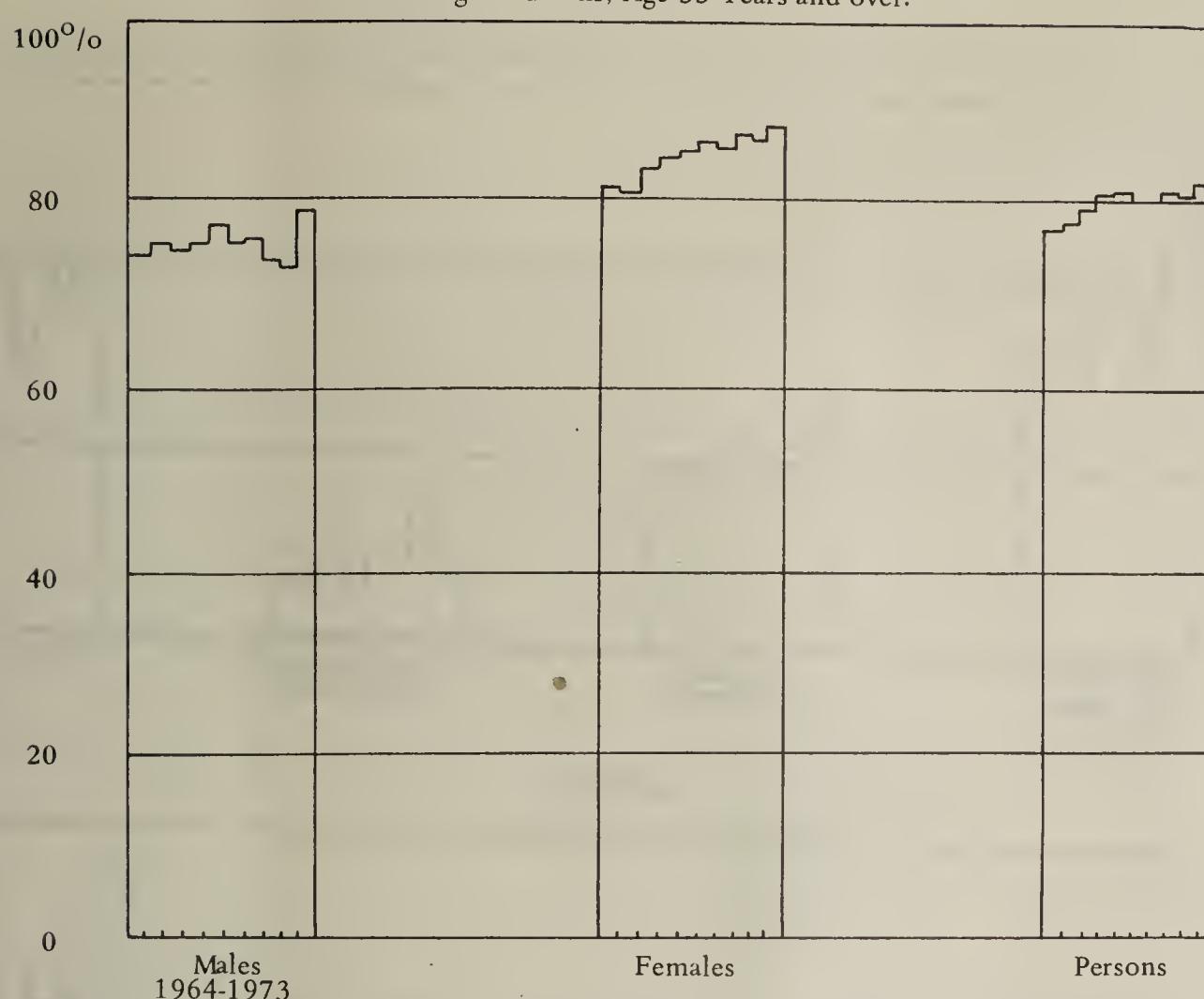
|              | Males | Females | Persons |
|--------------|-------|---------|---------|
| Langa ...    | 26645 | 4294    | 30939   |
| Guguletu ... | 26803 | 24926   | 51729   |

### HEALTH INDICATORS

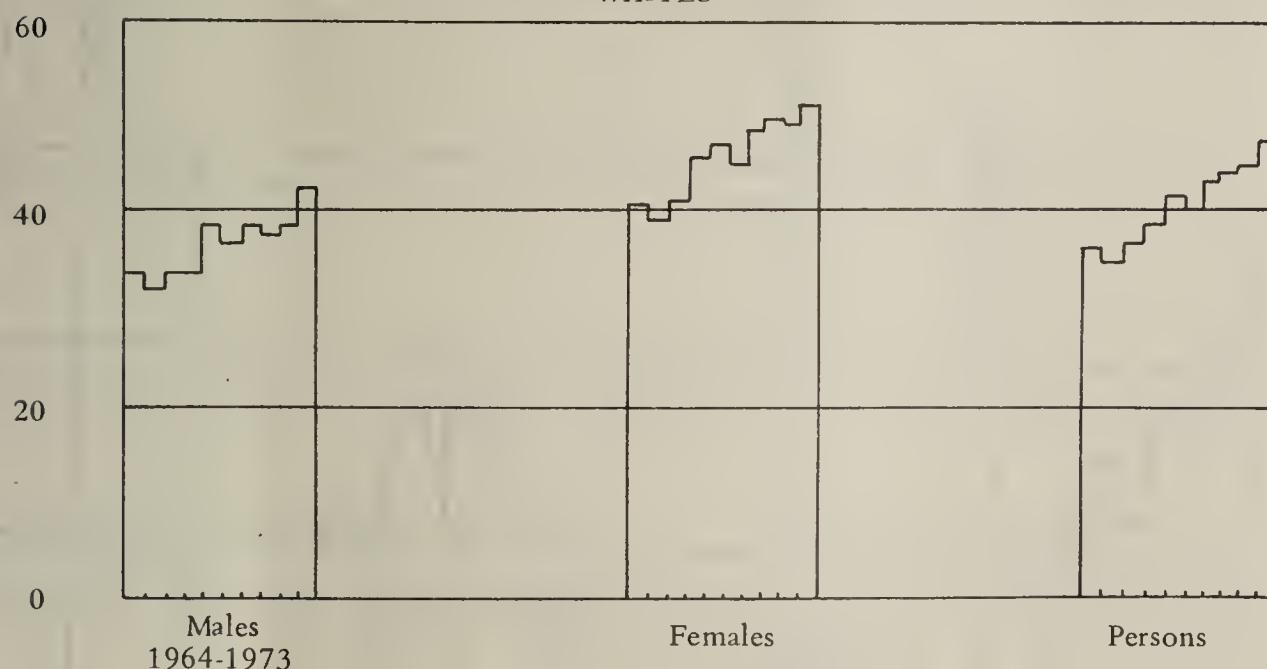
These tables indicate a steady rise in the percentage of deaths occurring at age 55 and over in the White and Coloured racial groups of the population, over the past ten years. The trends can be accepted as a satisfactory indication that the general environmental and health services are having the desired effect. More persons are attaining the age of 55 years than formerly and, generally speaking, it is the female who enjoys the longer span of life.

## HEALTH INDICATORS

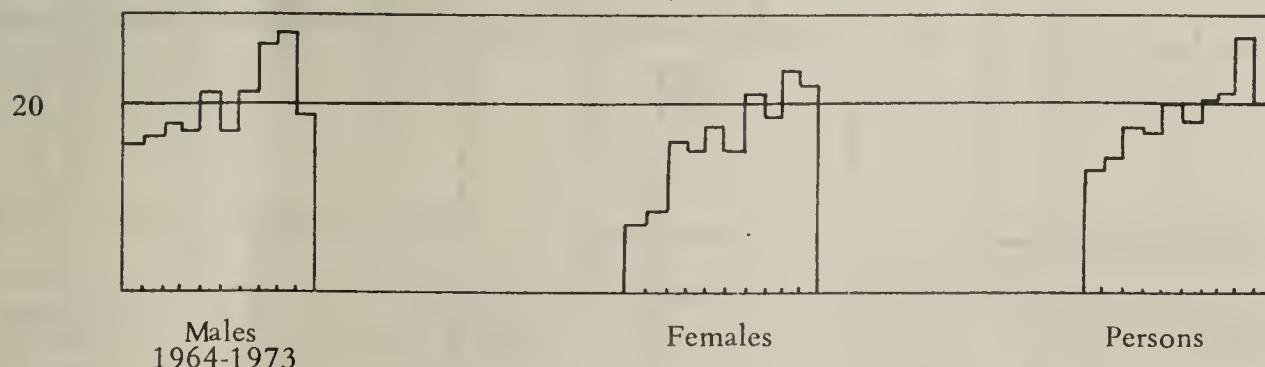
Percentage of deaths, Age 55 Years and over.



## WHITES



## COLOURED



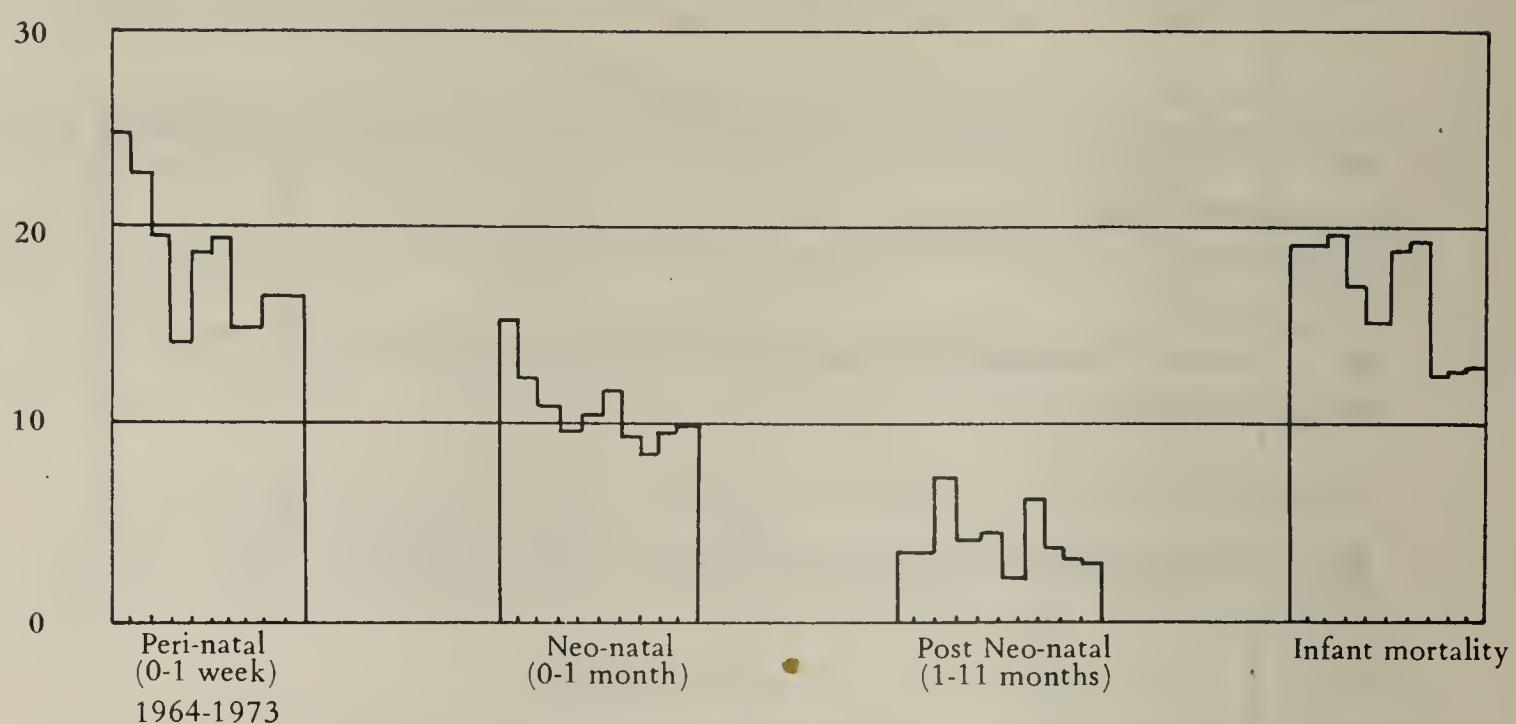
## BANTU

Increases among the White and Coloured groups amounted to 2,7% and 1,1% respectively while the Bantu decreased by 5,2%

The low percentage of deaths still occurring in the non-White groups should be noted.

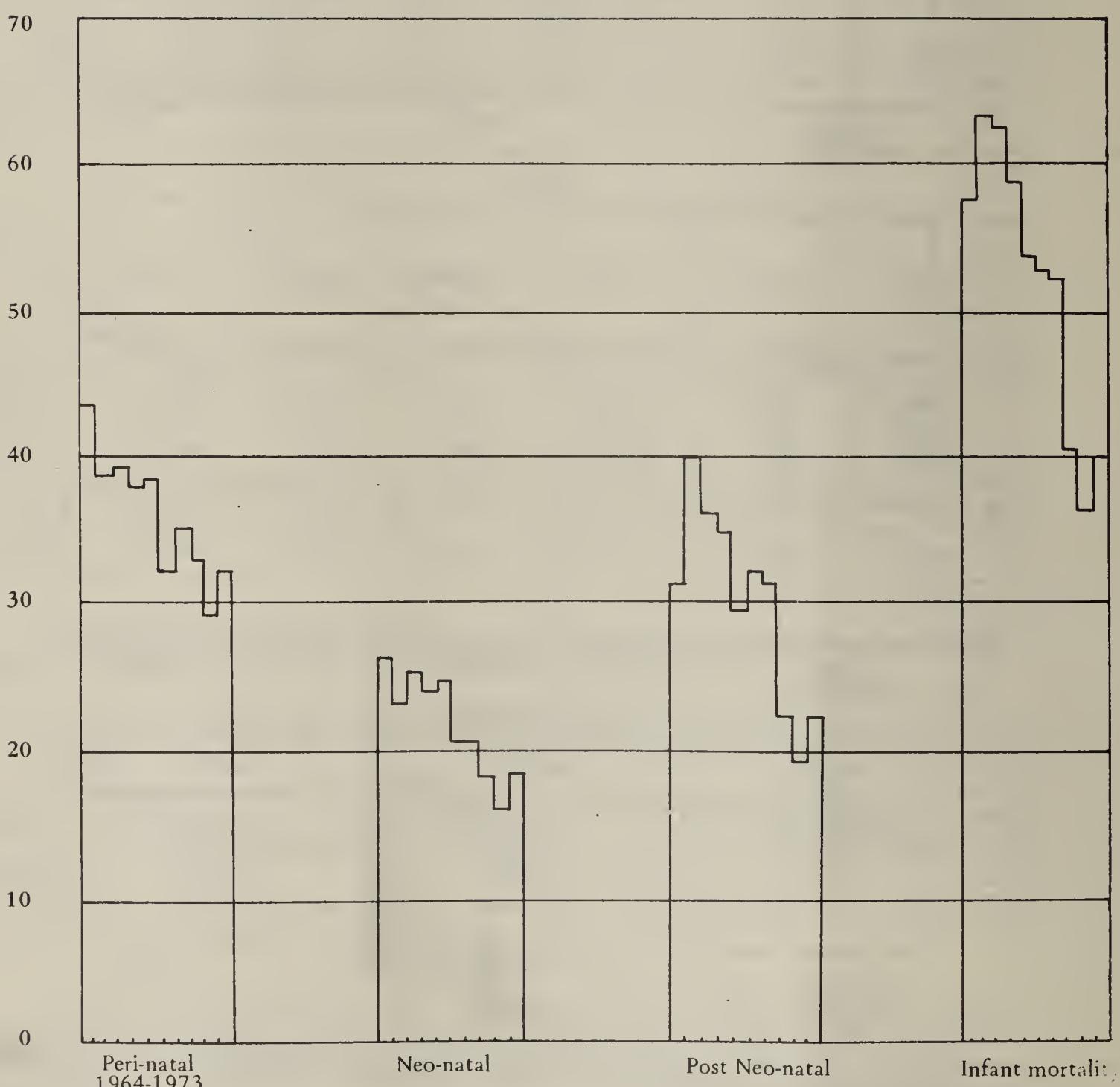
## INFANT MORTALITY RATES PER 1 000 LIVE BIRTHS

0/00



0/00

WHITES



COLOURED

## INFANT MORTALITY RATES PER 1 000 LIVE BIRTHS

0/00

100

90

80

70

60

50

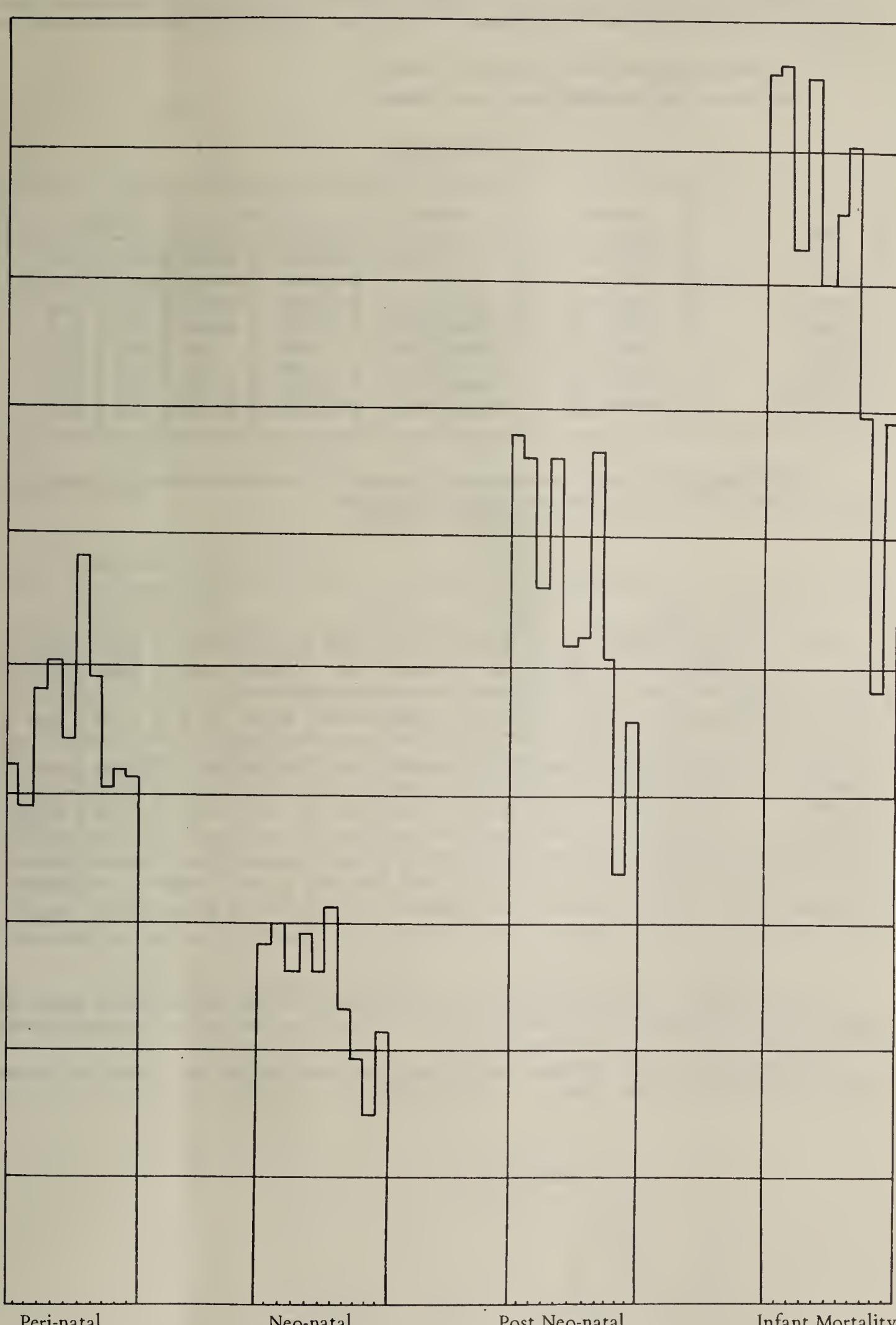
40

30

20

10

0

Peri-natal  
(0-1 week)  
1964-1973Neo-natal  
(0-1 month)Post Neo-natal  
(1-11 months)

Infant Mortality

BANTU

## BIRTHS

Births are notified direct to the Medical Officer of Health from institutions, midwives and others in terms of the Regulation re Early Notification of Births. (*Section 133 (1) of the Public Health Act No. 36 of 1919*).

Recording of registered births has been discontinued.

Particulars relating to notified births are as follows:—

## BIRTHS

| Race      | Males  |        | Females |        | Total  |        | Birth rate |      |
|-----------|--------|--------|---------|--------|--------|--------|------------|------|
|           | 1972   | 1973   | 1972    | 1973   | 1972   | 1973   | 1972       | 1973 |
| White     | 2 061  | 1 974  | 2 031   | 1 806  | 4 092  | 3 780  | 17,1       | 15,6 |
| Coloured  | 7 272  | 7 179  | 6 884   | 6 901  | 14 156 | 14 080 | 34,3       | 32,9 |
| Bantu     | 1 800  | 2 013  | 1 882   | 1 918  | 3 682  | 3 931  | 40,4       | 43,6 |
| Asiatic   | 112    | 135    | 70      | 115    | 182    | 250    | 18,3       | 24,5 |
| Non-White | 9 184  | 9 327  | 8 836   | 8 934  | 18 020 | 18 261 | 35,1       | 34,6 |
| All races | 11 245 | 11 301 | 10 867  | 10 740 | 22 112 | 22 041 | 29,4       | 28,6 |

The following table shows the variation in the number of births and birth rates per 1 000 population for the Municipality of Cape Town over a period of five years.

| Race        | 1969           |               | 1970           |               | 1971           |               | 1972           |               | 1973           |               |
|-------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|
|             | Live<br>births | Birth<br>rate |
| White ...   | 3 948          | 18,4          | 4 165          | 19,2          | 4 300          | 18,3          | 4 092          | 17,1          | 3 780          | 15,6          |
| Coloured    | 14 083         | 38,2          | 13 465         | 35,2          | 14 145         | 35,6          | 14 156         | 34,3          | 14 080         | 32,9          |
| Bantu ...   | 2 985          | 35,3          | 3 148          | 36,7          | 3 369          | 36,2          | 3 682          | 40,4          | 3 931          | 43,6          |
| Asiatic ... | 199            | 21,8          | 200            | 21,4          | 223            | 23,1          | 182            | 18,3          | 250            | 24,5          |
| Non-White   | 17 267         | 37,4          | 16 813         | 35,2          | 17 737         | 35,5          | 18 020         | 35,1          | 18 261         | 34,6          |
| All races   | 21 215         | 31,4          | 20 978         | 30,2          | 22 037         | 30,0          | 22 112         | 29,4          | 22 041         | 28,6          |

The table reflects a continuous decline in the overall birth rate over the past 5 years, despite the steady rise in the Bantu group. The increase of 34% in the rate of the Asiatic group is unexpected and it will be of interest to see if this rate will be maintained.

The White birth rate is the lowest ever recorded and is less than half that of the Coloured and nearly one third that of the Bantu groups.

Illegitimate live births notified during the year, were as follows:-

| Race      | Notifications |       |                                  |      |
|-----------|---------------|-------|----------------------------------|------|
|           | Number        |       | Percentage of total live births. |      |
|           | 1972          | 1973  | 1972                             | 1973 |
| White     | 376           | 381   | 9,2                              | 10,1 |
| Coloured  | 4 756         | 5 052 | 33,6                             | 35,9 |
| Bantu     | 1 955         | 2 090 | 53,1                             | 53,2 |
| Asiatic   | 3             | 6     | 1,1                              | 2,4  |
| Non-White | 6 714         | 7 148 | 37,3                             | 39,1 |
| All races | 7 090         | 7 529 | 32,1                             | 34,2 |

A further 760 illegitimate live births to non-residents were notified.

#### MULTIPLE BIRTHS

Twins notified to the Department.

| Race      | No. of pairs | Children   |          |              |          |        |          |
|-----------|--------------|------------|----------|--------------|----------|--------|----------|
|           |              | Both males |          | Both females |          | Mixed  |          |
|           |              | Legit.     | Illegit. | Legit.       | Illegit. | Legit. | Illegit. |
| White     | 42           | 13         | 1        | 19           | 1        | 8      | —        |
| Non-White | 218          | 46         | 22       | 44           | 21       | 61     | 24       |
| TOTAL     | 260          | 59         | 23       | 63           | 22       | 69     | 24       |

In addition the following were notified:- 2 sets of triplets - Coloured - Mixed.

#### STILL BIRTHS

| Race      | Notifications |      |                  |      |
|-----------|---------------|------|------------------|------|
|           | Number        |      | Still birth rate |      |
|           | 1972          | 1973 | 1972             | 1973 |
| White     | 33            | 33   | 8,1              | 8,7  |
| Coloured  | 231           | 250  | 16,3             | 17,8 |
| Bantu     | 115           | 104  | 31,2             | 26,5 |
| Asiatic   | 3             | 3    | 1,6              | 12,0 |
| Non-White | 349           | 357  | 19,4             | 19,5 |
| All races | 382           | 390  | 17,3             | 17,7 |

The rate is calculated as per 1 000 births. A further 68 still births to non-residents were also notified.

## BIRTHS IN INSTITUTIONS

Live and still births

| Race      | Notifications |        |                                    |      |
|-----------|---------------|--------|------------------------------------|------|
|           | Number        |        | Percentage of total<br>maternities |      |
|           | 1972          | 1973   | 1972                               | 1973 |
| White     | 4 006         | 3 740  | 97                                 | 99   |
| Coloured  | 8 649         | 8 826  | 60                                 | 63   |
| Bantu     | 2 237         | 2 619  | 57                                 | 67   |
| Asiatic   | 106           | 169    | 57                                 | 68   |
| Non-White | 10 992        | 11 614 | 60                                 | 64   |
| All races | 14 998        | 15 354 | 67                                 | 70   |

## MATERNITY BEDS AVAILABLE AT VARIOUS HOSPITALS

|                              |     |
|------------------------------|-----|
| Mowbray Maternity Hospital   | 99  |
| Groote Schuur Hospital       | 82  |
| Peninsula Maternity Hospital | 76  |
| Somerset Hospital            | 50  |
| St. Monica's Home            | 39  |
|                              | 346 |

## GENERAL MORTALITY

The deaths and rates per 1 000 population are shown in the following table:—

|           | Crude Total |       | Outward Transfers |     | Corrected Deaths | Death rate | Death rate |
|-----------|-------------|-------|-------------------|-----|------------------|------------|------------|
|           | M           | F     | M                 | F   | Persons          | 1972       | 1973       |
| White     | 1 520       | 1 326 | 349               | 216 | 2 281            | (8,99)     | 9,40       |
| Coloured  | 2 308       | 1 843 | 509               | 386 | 3 256            | (7,37)     | 7,61       |
| Bantu     | 821         | 448   | 143               | 74  | 1 052            | (7,79)     | 11,66      |
| Asiatic   | 45          | 21    | 8                 | 3   | 55               | (5,85)     | 5,40       |
| Non-White | 3 174       | 2 312 | 660               | 463 | 4 363            | (7,41)     | 8,26       |
| All races | 4 694       | 3 638 | 1 009             | 679 | 6 644            | (7,91)     | 8,62       |

Compared with the previous year the death rates for all races rose by 9,0% , 4,6% for Whites and 11,5% for non-Whites.

The White increase was due to a very sharp rise in deaths from degenerative heart disease (coronary thrombosis), whereas the non-White increase was fairly general with prominent gains in many categories.

Table L on page 104 sets out the annual death rates in years from 1945/6 and quinquennia from 1946/7.

For the purpose of comparison the death rates for certain other towns in the Republic and for England and Wales are set out in Table M on page 105.

Deaths registered as belonging to the Bantu Townships are included in the foregoing figures. Particulars regarding these will be found in Table A on page 91.

#### PRINCIPAL CAUSES OF MORTALITY

| Whites                                   |                             |                         | Non-Whites                               |                             |                         |  |
|--|-----------------------------|-------------------------|--|-----------------------------|-------------------------|--|
| Int. *<br>Code No.                       | Cause of death              | Deaths<br>Death<br>rate | Int. *<br>Code No.                       | Cause of death              | Deaths<br>Death<br>rate |  |
| 410-416<br>420-422<br>430-434<br>440-443 | Cardiovascular<br>diseases  | 709<br>2,92             | 410-416<br>420-422<br>430-434<br>440-443 | Cardiovascular<br>diseases  | 705<br>1,33             |  |
| 140-205                                  | Cancer                      | 430<br>1,77             | 140-205                                  | Cancer                      | 513<br>0,97             |  |
| 794                                      | Senility                    | 321<br>1,32             | 490-493<br>500-502<br>763                | Bronchitis and<br>Pneumonia | 496<br>0,94             |  |
| 330-334<br>450-456                       | Arterial<br>diseases        | 291<br>1,20             | 330-334<br>450-456                       | Arterial<br>diseases        | 415<br>0,79             |  |
| E 800-999                                | Accidents and<br>violence   | 108<br>0,45             | E 800-999                                | Accidents and<br>violence   | 383<br>0,73             |  |
| 490-493<br>500-502<br>763                | Bronchitis and<br>Pneumonia | 104<br>0,43             | 571, 764                                 | Gastro Enteritis            | 312<br>0,59             |  |
| 581                                      | Cirrhosis of liver          | 36<br>0,15              | 760-762<br>765-776                       | Infant diseases             | 263<br>0,50             |  |
| 760-762<br>765-776                       | Infant diseases             | 27<br>0,11              | 001-019                                  | Tuberculosis                | 202<br>0,38             |  |
| 260                                      | Diabetes                    | 22<br>0,09              | 794                                      | Senility                    | 175<br>0,33             |  |
| 053                                      | Septicaemia                 | 14<br>0,06              | 260                                      | Diabetes                    | 83<br>0,16              |  |

\* Based on the International Classification of Diseases, 7th Revision.

The deaths listed above account for 84% of all deaths.

Cardiovascular diseases continue to head the list of principal causes of death for both racial groups. There has been no change in the order of the first four causes of death in the case of Whites and the first five causes for non-Whites from the previous year.

It is of interest to note that cirrhosis of the liver and septicaemia are reflected only in the White and gastro-enteritis and tuberculosis only in the non-White list of causes.

Further details of the year 1973 will be found in Table A to C pages 91 to 93 and in Table D, on pages 94 and 95 the rates of mortality of a short list of causes are shown by race with the corresponding figures for the previous 10 years.

## DEATHS FROM CORONARY THROMBOSIS (CODE 420) OVER 5 YEAR PERIOD 1969 to 1973.

## DEATHS AND DEATH RATES PER 1 000 POPULATION

| RACE     | 1969 |      | 1970 |      | 1971 |      | 1972         |              | 1973 |      |
|----------|------|------|------|------|------|------|--------------|--------------|------|------|
|          | M    | F    | M    | F    | M    | F    | M            | F            | M    | F    |
| White    | 318  | 176  | 314  | 182  | 310  | 169  | 159<br>(273) | 111<br>(190) | 346  | 209  |
|          | 3,11 | 1,57 | 3,04 | 1,60 | 2,77 | 1,37 | 2,40         | 1,52         | 3,00 | 1,64 |
| Coloured | 165  | 106  | 180  | 93   | 164  | 94   | 96<br>(165)  | 69<br>(118)  | 193  | 128  |
|          | 0,95 | 0,54 | 1,00 | 0,46 | 0,88 | 0,45 | 0,85         | 0,54         | 0,96 | 0,56 |

## SEASONAL VARIATION

The seasonal variation in mortality is shown in the table below and in Table C on page 93 where the deaths for the year are classified for specific causes.

|                      | 1968  | 1969  | 1970  | 1971  | 1972  | Mean<br>5 years. | 1973  |
|----------------------|-------|-------|-------|-------|-------|------------------|-------|
| January              | 473   | 472   | 485   | 490   | 436   | 471              | 559   |
| February             | 445   | 471   | 484   | 546   | —     | 487              | 403   |
| March                | 478   | 469   | 443   | 533   | —     | 481              | 574   |
| April                | 461   | 505   | 583   | 515   | —     | 516              | 447   |
| May                  | 524   | 543   | 546   | 481   | —     | 524              | 560   |
| June                 | 530   | 651   | 600   | 543   | —     | 581              | 596   |
| July                 | 526   | 732   | 700   | 523   | 520   | 600              | 586   |
| August               | 625   | 609   | 689   | 557   | 614   | 619              | 694   |
| September            | 529   | 573   | 713   | 553   | 461   | 566              | 659   |
| October              | 461   | 541   | 562   | 451   | 434   | 490              | 526   |
| November             | 411   | 419   | 550   | 448   | 579   | 481              | 495   |
| December             | 441   | 548   | 532   | 401   | 429   | 470              | 545   |
| <b>TOTAL</b>         | 5 904 | 6 533 | 6 887 | 6 041 | 3 473 | 6 286            | 6 644 |
| <b>MEAN</b>          | 492   | 544   | 574   | 503   | 496   | 524              | 554   |
| Per 1 000 population | 9,0   | 9,7   | 9,9   | 8,2   | 7,9   | 9,1              | 8,6   |

## AGE AT DEATH

The number of deaths at various ages, with the percentage of total deaths, is summarized in the following table:—

| Deaths    |                            | Age groups |      |     |      |      |     |       |      |             |       |       |       |
|-----------|----------------------------|------------|------|-----|------|------|-----|-------|------|-------------|-------|-------|-------|
|           |                            | 0-1        |      | 1-4 |      | 5-24 |     | 25-64 |      | 65 and over |       | Total |       |
|           |                            | M          | F    | M   | F    | M    | F   | M     | F    | M           | F     | M     | F     |
| White     |                            | 33         | 15   | 6   | 12   | 25   | 16  | 432   | 258  | 675         | 809   | 1 171 | 1 110 |
| Coloured  |                            | 292        | 270  | 78  | 66   | 109  | 59  | 875   | 545  | 445         | 517   | 1 799 | 1 457 |
| Bantu     |                            | 146        | 122  | 42  | 47   | 48   | 20  | 383   | 134  | 59          | 51    | 678   | 374   |
| Asiatic   |                            | 4          | 3    | 2   | —    | 4    | —   | 18    | 7    | 9           | 8     | 37    | 18    |
| Non-White |                            | 442        | 395  | 122 | 113  | 161  | 79  | 1 276 | 686  | 513         | 576   | 2 514 | 1 849 |
| All races |                            | 475        | 410  | 128 | 125  | 186  | 95  | 1 708 | 944  | 1 188       | 1 385 | 3 685 | 2 959 |
| White     | Percentage of Total Deaths | 2,8        | 1,4  | 0,5 | 1,1  | 2,1  | 1,4 | 36,9  | 23,2 | 57,6        | 72,9  | 100   | 100   |
| Coloured  |                            | 16,2       | 18,5 | 4,3 | 4,5  | 6,1  | 4,0 | 48,6  | 37,4 | 24,7        | 35,5  | 100   | 100   |
| Bantu     |                            | 21,5       | 32,6 | 6,2 | 12,6 | 7,1  | 5,3 | 56,5  | 35,8 | 8,7         | 13,6  | 100   | 100   |
| Asiatic   |                            | 10,8       | 16,7 | 5,4 | —    | 10,8 | —   | 48,6  | 38,9 | 24,3        | 44,4  | 100   | 100   |
| Non-White |                            | 17,6       | 21,4 | 4,8 | 6,1  | 6,4  | 4,3 | 50,8  | 37,1 | 20,4        | 31,2  | 100   | 100   |
| All races |                            | 12,9       | 13,9 | 3,5 | 4,2  | 5,0  | 3,2 | 46,4  | 31,9 | 32,2        | 46,8  | 100   | 100   |

## NOTE:

The above figures represent percentages and not rates and cannot as a result be used for statistical comparisons between racial groups.

Reference should also be made to the health indicator diagrams on page 8 of this report.

In the non-White group 19,2% of all non-White deaths occurred under the age group of one year — the corresponding figure for Whites was 2,1%.

Deaths under 5 years of age constituted 24,6% of all deaths among non-Whites (Coloured 21,8%, Bantu 33,9%, Asiatic 16,4%). The corresponding figure for Whites was 2,9%.

Under 25 years of age, deaths constituted 30,1% of all deaths among non-Whites (Coloured 26,8%, Bantu 40,4%, Asiatic 23,6%). The White figure was 4,7%.

The deaths and death rates per 1 000 population are shown in the accompanying table according to sex:—

| Race      | Crude |       | Corrected |       |           |     |           |      |
|-----------|-------|-------|-----------|-------|-----------|-----|-----------|------|
|           |       |       | Deaths    |       | Rate 1972 |     | Rate 1973 |      |
|           | M     | F     | M         | F     | M         | F   | M         | F    |
| White     | 1 520 | 1 326 | 1 171     | 1 110 | 9,1       | 8,9 | 10,1      | 8,7  |
| Coloured  | 2 308 | 1 843 | 1 799     | 1 457 | 8,8       | 6,0 | 8,9       | 6,4  |
| Bantu     | 821   | 448   | 678       | 374   | 7,5       | 8,8 | 11,2      | 12,5 |
| Asiatic   | 45    | 21    | 37        | 18    | 7,6       | 4,0 | 7,0       | 3,7  |
| Non-White | 3 174 | 2 312 | 2 514     | 1 849 | 8,5       | 6,3 | 9,4       | 7,1  |
| All races | 4 694 | 3 638 | 3 685     | 2 959 | 8,7       | 7,2 | 9,6       | 7,6  |

## DEATH RATES

The following table shows the variation in the number of deaths and death rates per 1 000 population for the Municipality of Cape Town over a period of five years. Figures for the Bantu Townships have been included.

| Race      | 1969   |            | 1970   |            | 1971   |            | 1972             |            | 1973   |            |
|-----------|--------|------------|--------|------------|--------|------------|------------------|------------|--------|------------|
|           | Deaths | Death rate | Deaths | Death rate | Deaths | Death rate | Deaths           | Death rate | Deaths | Death rate |
| White     | 2 218  | 10,34      | 2 295  | 10,57      | 2 129  | 9,04       | 1 253<br>(2 148) | 8,99       | 2 281  | 9,40       |
| Coloured  | 3 348  | 9,09       | 3 528  | 9,23       | 3 045  | 7,66       | 1 772<br>(3 038) | 7,37       | 3 256  | 7,61       |
| Bantu     | 903    | 10,69      | 1 009  | 11,77      | 821    | 8,82       | 414<br>(710)     | 7,79       | 1 052  | 11,66      |
| Asiatic   | 64     | 7,03       | 55     | 5,88       | 46     | 4,76       | 34<br>(58)       | 5,85       | 55     | 5,40       |
| Non-White | 4 315  | 9,34       | 4 592  | 9,62       | 3 912  | 7,82       | 2 220<br>(3 806) | 7,41       | 4 363  | 8,26       |
| All races | 6 533  | 9,66       | 6 887  | 9,92       | 6 041  | 8,21       | 3 473<br>(5 954) | 7,91       | 6 644  | 8,62       |

The rates computed from the 1972 figures are arbitrary.

## DEATHS IN INSTITUTIONS

The number of deaths occurring in institutions and the percentage of total deaths are shown in the following table:-

| Race      | Crude                  |                            | Corrected              |                            |
|-----------|------------------------|----------------------------|------------------------|----------------------------|
|           | Deaths in institutions | Percentage of total deaths | Deaths in institutions | Percentage of total deaths |
| White     | 1 849                  | 65                         | 1 334                  | 58                         |
| Coloured  | 2 337                  | 56                         | 1 496                  | 45                         |
| Bantu     | 806                    | 64                         | 599                    | 56                         |
| Asiatic   | 38                     | 58                         | 30                     | 55                         |
| Non-White | 3 181                  | 58                         | 2 125                  | 49                         |
| All races | 5 030                  | 60                         | 3 459                  | 52                         |

There are 40 recognised general hospitals and private nursing homes in the municipality.

## REPORT OF THE MEDICAL OFFICER OF HEALTH

19.

## DEATHS BY OCCUPATION

Deaths at certain ages are classified here as to occupation at time of death

| Occupation          |   | Age Groups |     |       |     |       |     |     |     | Non-residents. |     |
|---------------------|---|------------|-----|-------|-----|-------|-----|-----|-----|----------------|-----|
|                     |   | 15-24      |     | 25-44 |     | 45-64 |     | 65+ |     |                |     |
|                     |   | Sex        | W   | N-W   | W   | N-W   | W   | N-W | W   | N-W            | W   |
| Agriculture         | M |            |     |       | 1   | 1     | 3   |     | 1   |                | 15  |
|                     | F |            |     |       |     |       |     |     |     |                | 11  |
| Clerical            | M | 2          | 1   | 8     | 10  | 28    | 15  | 18  | 4   | 19             | 3   |
|                     | F | 1          | 6   | 7     | 1   | 13    | 1   | 2   | 1   | 5              | 4   |
| Domestic Servant    | M |            |     |       | 29  |       | 19  |     |     |                | 1   |
|                     | F |            | 4   |       |     |       |     |     |     |                | 16  |
| Fishing and Marine  | M |            |     |       | 11  | 3     | 7   |     | 1   | 2              | 9   |
|                     | F |            | 3   |       |     |       |     |     |     |                | 2   |
| Invalid             | M | 3          |     | 5     | 18  | 6     | 18  |     | 1   | 7              | 8   |
|                     | F | 2          | 2   | 3     | 4   | 5     | 12  | 9   | 5   | 1              | 10  |
| Labourer            | M | 3          | 76  | 7     | 313 | 11    | 414 |     | 95  | 5              | 228 |
|                     | F |            |     |       |     |       |     |     |     |                |     |
| Managerial          | M |            |     |       | 5   | 36    | 2   | 28  |     |                | 1   |
|                     | F |            |     |       |     | 4     |     |     |     |                | 1   |
| Commercial          | M |            |     |       | 2   | 1     | 17  | 6   | 31  | 1              | 14  |
|                     | F |            |     |       |     | 3     |     |     |     |                | 6   |
| Professional        | M | 1          |     | 3     |     | 18    | 1   | 23  |     |                | 7   |
|                     | F | 1          | 1   | 1     | 1   | 1     | 2   | 3   |     |                | 1   |
| Police and Military | M | 3          |     | 2     | 2   | 5     | 2   |     |     |                | 6   |
|                     | F |            |     |       |     |       |     |     |     |                |     |
| Salesmen            | M |            |     | 2     |     | 1     | 14  | 7   | 9   |                | 5   |
|                     | F |            |     | 2     |     |       |     |     |     |                | 2   |
| Scholar             | M | 2          | 7   |       |     |       |     |     |     |                | 2   |
|                     | F | 1          | 2   |       |     |       |     |     |     |                | 2   |
| Teacher             | M |            |     |       | 3   | 3     | 10  | 1   | 1   | 1              | 4   |
|                     | F |            | 1   | 2     | 2   | 3     | 3   |     |     |                | 1   |
| Tradesman           | M | 1          | 7   | 12    | 28  | 53    | 50  | 14  | 20  | 20             | 13  |
|                     | F |            |     |       | 1   |       |     |     |     |                |     |
| Transport           | M |            |     | 2     | 19  | 15    | 29  | 3   | 5   | 8              | 8   |
|                     | F |            |     |       |     |       |     |     |     |                |     |
| Other Workers       | M | 4          | 18  | 11    | 74  | 62    | 125 | 28  | 32  | 20             | 44  |
|                     | F | 2          | 6   | 1     | 21  | 5     | 16  | 6   | 3   | 11             | 11  |
| Housewives          | M | 4          | 17  | 24    | 161 | 151   | 370 | 603 | 384 | 131            | 184 |
|                     | F |            |     | 1     | 5   | 97    | 105 | 518 | 344 | 165            | 69  |
| Retired etc.        | M |            |     |       |     | 38    | 42  | 185 | 177 | 42             | 25  |
|                     | F |            |     |       |     |       |     |     |     |                |     |
| <b>TOTAL</b>        | M | 19         | 114 | 61    | 485 | 371   | 791 | 675 | 513 | 314            | 409 |
|                     | F | 11         | 39  | 38    | 221 | 220   | 465 | 809 | 576 | 183            | 249 |

## HOME ACCIDENTS

The following list of deaths in Cape Town from accidents in the home have been compiled from death certificates where mention is made of an accident being either the main or a contributing cause of death:-

| Cause                     | Sex | Age Groups |     |      |     |       |     |       |     |       |     |
|---------------------------|-----|------------|-----|------|-----|-------|-----|-------|-----|-------|-----|
|                           |     | 0-4        |     | 5-14 |     | 15-24 |     | 25-49 |     | 50-64 |     |
|                           |     | W          | N-W | W    | N-W | W     | N-W | W     | N-W | W     | N-W |
| Burns                     | M   |            | 5   | 1    | 1   |       | 2   | 7     | 1   | 1     | 1   |
|                           | F   | 1          |     |      |     | 2     |     | 2     | 2   | 1     | 1   |
| Falls                     | M   | 1          |     |      |     | 1     | 1   | 1     | 1   | 1     | 1   |
|                           | F   |            |     |      |     |       |     |       |     |       | 1   |
| Suffocation               | M   | 3          |     |      |     |       |     |       |     |       |     |
|                           | F   | 1          |     |      |     |       |     |       |     |       |     |
| Poisoning by drugs        | M   | 1          |     |      |     |       |     |       |     |       |     |
|                           | F   |            |     |      |     |       |     |       |     |       |     |
| Carbon Monoxide Poisoning | M   |            |     |      |     |       |     |       |     |       |     |
| Drowning                  | M   |            |     |      |     |       |     |       |     |       |     |
| Cuts                      | M   |            |     |      |     |       |     |       |     |       |     |
|                           | F   |            |     |      |     |       |     |       |     |       |     |
| Electrocution             | M   |            |     |      |     |       |     |       |     |       |     |
|                           | F   |            |     |      |     |       |     |       |     |       |     |
| Firearms                  | M   |            |     |      |     |       |     |       |     |       |     |
|                           | F   |            |     |      |     |       |     |       |     |       |     |
| Lack of care              | M   |            |     |      |     |       |     |       |     |       |     |
|                           | F   |            |     |      |     |       |     |       |     |       |     |
| <b>TOTAL</b>              | M   | 1          | 10  | 1    | 2   |       | 2   | 1     | 3   | 3     | 2   |
|                           | F   |            | 4   |      |     |       | 2   | 1     | 3   | 3     | 1   |

The total of 48 accidental deaths compares with 22 (38) in the previous year.

## ACCIDENTAL DEATHS

The table below sets out the causes of accidental deaths over a period of 5 years. These figures represent the minimum of deaths from unnatural causes, as inquest findings do not always establish the cause of death.

|               | 1969       | 1970       | 1971       | 1972             | 1973       |
|---------------|------------|------------|------------|------------------|------------|
| Railway       | 8          | 12         | 8          | 8 ( 14)          | 15         |
| Road traffic  | 290        | 325        | 274        | 101 (173)        | 202        |
| Poisoning     | 6          | 16         | 13         | 5 ( 9)           | 11         |
| Falls         | 38         | 38         | 23         | 10 ( 17)         | 24         |
| Drowning      | 46         | 43         | 26         | 15 ( 26)         | 31         |
| Asphyxia      | 6          | 5          |            | 1 ( 2)           | 3          |
| Burns         | 15         | 26         | 29         | 6 ( 10)          | 24         |
| Trauma        | 16         | 21         | 18         | 2 ( 3)           | 19         |
| Firearms      | 2          | 1          |            |                  | 1          |
| Electrocution | 1          | 1          | 1          | 1 ( 2)           | 1          |
| Miscellaneous | 23         | 19         | 8          | 8 ( 14)          | 32         |
| <b>TOTAL</b>  | <b>451</b> | <b>507</b> | <b>400</b> | <b>157 (269)</b> | <b>363</b> |

## SUICIDE

Deaths by suicide. Number:-

| Year | White |        | Non-White |        | Total  |        |         | Rate per 1 000 |
|------|-------|--------|-----------|--------|--------|--------|---------|----------------|
|      | Male  | Female | Male      | Female | Male   | Female | Persons |                |
| 1969 | 15    | 9      | 13        | 2      | 28     | 11     | 39      | 0,06           |
| 1970 | 15    | 9      | 7         | 6      | 22     | 15     | 37      | 0,05           |
| 1971 | 13    | 9      | 10        | 1      | 23     | 10     | 33      | 0,04           |
| 1972 | 5(9)  | 5(9)   | 7(12)     |        | 12(21) | 5(9)   | 17(30)  | 0,04           |
| 1973 | 19    | 16     | 13        | 4      | 32     | 20     | 52      | 0,07           |

The sudden increase during the year in the number of suicides is unexpected, the mode of death showing a dramatic rise in the use of drugs. The number of Whites involved was twice that of the non-Whites, the males predominating in each racial group. Approximately 42% of all these events occurred among persons in the prime of life, i.e. in the age group 25-44 years.

Death by suicide. Age group

| Year | 10-14 |       | 15-24 |       | 25-44 |       | 45-64 |       | 65 + |       | Total  |
|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|--------|
|      | W     | Non-W | W     | Non-W | W     | Non-W | W     | Non-W | W    | Non-W |        |
| 1969 | -     | -     | 2     | 3     | 10    | 9     | 11    | 3     | 1    | -     | 39     |
| 1970 | -     | -     | 3     | 1     | 8     | 9     | 10    | 3     | 3    | -     | 37     |
| 1971 | -     | -     | 2     | 2     | 7     | 5     | 12    | 2     | 1    | 2     | 33     |
| 1972 | -     | -     | -     | 1(2)  | 6(10) | 4(7)  | 2(3)  | 2(3)  | 2(3) | -     | 17(30) |
| 1973 | -     | -     | 5     | 4     | 11    | 11    | 9     | 2     | 10   | -     | 52     |

Death by suicide. Mode.

|                           | 1969 | 1970 | 1971 | 1972  | 1973 |
|---------------------------|------|------|------|-------|------|
| Drug Poisoning            | 7    | 9    | 9    | 6(10) | 28   |
| Hanging                   | 11   | 10   | 7    | 7(12) | 5    |
| Firearms                  | 14   | 6    | 6    | 2( 3) | 4    |
| Carbon monoxide poisoning | 3    | 4    | 4    | 1( 2) | 3    |
| Falls                     | 1    | 3    | 2    | -     | 4    |
| Railway                   | 1    | 1    | 4    | 1( 2) | 3    |
| Drowning                  | -    | 1    | -    | -     | 1    |
| Wounds                    | 1    | 1    | 1    | -     | 1    |
| Electrocution             | -    | -    | -    | -     | 1    |
| Burns                     | 1    | 2    | -    | -     | 1    |
| Inanition                 | -    | -    | -    | -     | 1    |



City of Cape Town. - Stad Kaapstad.

With the Compliments of the Medical Officer of Health.

Met die komplimente van die Mediese Gesondheidsobeampte.

1882  
1883

1884

## INFANT MORTALITY

The deaths of infants under one year of age are shown in the following table.

| Race      | Crude |     | Outward<br>Transfers |     | Corrected Infant<br>Deaths<br>1973 |     |       |
|-----------|-------|-----|----------------------|-----|------------------------------------|-----|-------|
|           | M     | F   | M                    | F   | M                                  | F   | Total |
| White     | 58    | 31  | 25                   | 16  | 33                                 | 15  | 48    |
| Coloured  | 418   | 369 | 126                  | 99  | 292                                | 270 | 562   |
| Bantu     | 173   | 152 | 27                   | 30  | 146                                | 122 | 268   |
| Asiatic   | 4     | 3   | —                    | —   | 4                                  | 3   | 7     |
| Non-White | 595   | 524 | 153                  | 129 | 442                                | 395 | 837   |
| All races | 653   | 555 | 178                  | 145 | 475                                | 410 | 885   |

| Race      | Infant deaths |      | Rate per 1 000 live births |      |
|-----------|---------------|------|----------------------------|------|
|           |               |      | Based on notified births   |      |
|           | 1972          | 1973 | 1972                       | 1973 |
| White     | 31( 53)       | 48   | 13,0                       | 12,7 |
| Coloured  | 296(507)      | 562  | 35,8                       | 39,9 |
| Bantu     | 103(177)      | 268  | 48,1                       | 68,2 |
| Asiatic   | 2( 3)         | 7    | 16,5                       | 28,0 |
| Non-White | 401(687)      | 837  | 38,1                       | 45,8 |
| All races | 432(740)      | 885  | 33,5                       | 40,2 |

## INFANT MORTALITY RATES

The infant mortality rate is of special significance because it is regarded as one of the most sensitive indexes of health conditions of the general population.

Compared with the previous year, when annual figures had to be found by proportion, infant deaths of all races rose sharply by 145 i.e. (19,6%) White deaths decreased slightly. Among non-Whites the increase occurred in nearly all categories, being most marked in the case of prematurity, enteritis and pneumonia. When compared with the 1971 infant deaths a more realistic increase of 21 deaths is observed.

During the year 58% of the White deaths occurred in the first week of life (peri-natal period) and 77% in the first month of life (neo-Natal period). The percentages among the non-White group were 32% and 41% respectively.

The causes of infant mortality both for children under one year of age and children between one and two years of age are set out in Table K on pages 102. This Table indicates very clearly the fall in infant mortality over the past twenty five years, and in recent years the decline in the number of infant deaths from gastro-enteritis. Table E and F on pages 96 and 98 shows the deaths of infants classified according to age, cause, months and legitimacy.

The infant mortality rates since 1945/6 are set out in years and quinquennia from 1946/7 in Table L on page 104.

The number of deaths of infants under one year of age and the infant mortality rates per 1 000 live births (notified) for the past five years are shown in the following table.

| Race      | 1969                |                       | 1970                |                       | 1971                |                       | 1972                |                       | 1973                |                       |
|-----------|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|
|           | Deaths under 1 year | Infant mortality rate | Deaths under 1 year | Infant mortality rate | Deaths under 1 year | Infant mortality rate | Deaths under 1 year | Infant mortality rate | Deaths under 1 year | Infant mortality rate |
| White     | 71                  | 18,0                  | 66                  | 15,8                  | 55                  | 12,8                  | 31(53)              | 13,0                  | 48                  | 12,7                  |
| Coloured  | 744                 | 52,8                  | 703                 | 52,2                  | 571                 | 40,4                  | 296(507)            | 35,8                  | 562                 | 39,9                  |
| Bantu     | 255                 | 85,4                  | 284                 | 90,2                  | 234                 | 69,5                  | 103(177)            | 48,1                  | 268                 | 68,2                  |
| Asiatic   | 2                   | 10,1                  | 2                   | 10,0                  | 4                   | 17,9                  | 2( 3)               | 16,5                  | 7                   | 28,0                  |
| Non-White | 1 001               | 58,0                  | 989                 | 58,8                  | 809                 | 45,6                  | 401(687)            | 38,1                  | 837                 | 45,8                  |
| All races | 1 072               | 50,5                  | 1 055               | 50,3                  | 864                 | 39,2                  | 432(740)            | 33,5                  | 885                 | 40,2                  |

The neo-natal (under 4 weeks) and post neo-natal (over 4 weeks but under one year) mortality rates per 1 000 live births (notified) are shown in the following table classified for certain causes.

| Cause of death                          | Neo-natal mortality rate |             | Post neo-natal mortality rate |             | Infant mortality rate |             |
|---|--------------------------|-------------|-------------------------------|-------------|-----------------------|-------------|
|   | White                    | non-White   | White                         | non-White   | White                 | non-White   |
| Whooping cough                          |                          |             |                               | 0,1         |                       | 0,1         |
| Tuberculosis<br><i>(all forms)</i>      |                          |             |                               | 0,3         |                       | 0,3         |
| Scarlet fever                           |                          |             |                               |             |                       |             |
| Measles                                 |                          | 0,2         |                               | 1,3         |                       | 1,3         |
| Diphtheria                              |                          | 0,4         |                               | 0,1         |                       | 0,2         |
| Syphilis                                |                          |             |                               |             |                       | 0,4         |
| Bronchitis and pneumonia                |                          | 1,4         |                               | 7,7         |                       | 9,1         |
| Gastro enteritis                        | 3,4                      | 0,7         | 0,3                           | 11,1        | 0,3                   | 11,7        |
| Prematurity                             |                          | 8,0         |                               | 0,2         | 3,4                   | 8,2         |
| Injury at birth                         | 0,5                      | 1,0         |                               |             | 0,5                   | 1,0         |
| Congenital malformations                | 2,4                      | 1,1         | 0,3                           | 0,9         | 2,6                   | 2,1         |
| Other diseases of early infancy         |                          | 0,3         |                               |             |                       | 0,3         |
| Other and ill-defined or unknown causes | 3,4                      | 5,9         | 2,4                           | 5,2         | 5,8                   | 11,1        |
| <b>TOTAL</b>                            | <b>9,8</b>               | <b>19,0</b> | <b>2,9</b>                    | <b>26,8</b> | <b>12,7</b>           | <b>45,8</b> |

The trend in infant mortality since 1964 is as follows:-

#### White Group

| Cause of death                  | 1964 | 1965 | 1966 | 1967 | 1968* | 1969* | 1970* | 1971* | 1972* | 1973* |
|---------------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Whooping cough                  |      |      |      |      |       |       |       |       |       |       |
| Tuberculosis                    |      |      |      |      |       |       |       |       |       |       |
| Measles                         | 0,3  |      |      |      |       |       |       |       |       |       |
| Diphtheria                      |      |      |      |      |       |       |       |       |       |       |
| Syphilis                        |      |      |      |      |       |       |       |       |       |       |
| Bronchitis and pneumonia        | 1,4  | 1,5  | 0,5  | 0,8  | 1,3   | 1,5   | 1,2   | 1,9   | 0,7   |       |
| Gastro enteritis                | 1,1  | 1,2  | 1,9  | 0,8  | 0,5   | 0,8   | 1,2   | 0,7   |       | 0,3   |
| Prematurity                     | 3,2  | 3,2  | 3,2  | 2,1  | 2,4   | 4,6   | 1,9   | 3,0   | 2,4   | 3,4   |
| Injury at birth                 | 1,6  | 1,2  | 1,3  | 0,5  | 1,3   | 1,0   | 1,2   | 0,5   | 0,5   | 0,5   |
| Congenital malformations        | 5,4  | 4,9  | 3,5  | 3,7  | 3,7   | 3,3   | 3,4   | 2,3   | 2,4   | 2,6   |
| Other diseases of early infancy | 4,6  | 5,2  | 3,5  | 4,5  | 4,4   | 4,8   | 3,8   | 3,3   | 4,6   |       |
| Other causes                    | 1,4  | 2,3  | 2,7  | 2,1  | 1,3   | 1,3   | 3,1   | 1,2   | 2,2   | 5,8   |
| All causes                      | 19   | 19   | 17   | 15   | 15    | 18    | 16    | 13    | 13    | 13    |

\*Rates based on notified births.

*Non-White Group*

|                                 | 1964 | 1965 | 1966 | 1967 | 1968* | 1969* | 1970* | 1971* | 1972* | 1973* |
|---------------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Whooping cough                  | 0,3  | 0,2  | 0,1  | 0,1  | 0,2   |       | 0,1   | 0,1   | 0,1   | 0,1   |
| Tuberculosis                    | 0,4  | 0,6  | 0,3  | 0,9  | 0,3   | 0,5   | 0,2   | 0,3   | 0,3   | 0,3   |
| Measles                         | 0,8  | 1,7  | 1,3  | 1,3  | 0,9   | 1,3   | 1,2   | 1,2   | 0,2   | 1,3   |
| Diphtheria                      |      |      | 0,1  |      |       | 0,1   |       |       |       | 0,2   |
| Syphilis                        | 0,4  | 0,2  | 0,1  | 0,4  | 0,5   | 0,4   | 0,3   | 0,2   |       | 0,4   |
| Bronchitis and pneumonia        | 11,0 | 10,6 | 11,9 | 12,5 | 9,3   | 9,3   | 8,5   | 7,3   | 7,9   | 9,1   |
| Gastro enteritis                | 20,6 | 22,0 | 20,6 | 20,4 | 14,1  | 16,2  | 19,9  | 13,9  | 10,0  | 11,7  |
| Prematurity                     | 14,4 | 11,8 | 11,2 | 11,3 | 8,7   | 6,8   | 6,4   | 9,2   | 6,1   | 8,2   |
| Injury at birth                 | 4,2  | 3,1  | 2,9  | 3,3  | 2,8   | 3,0   | 2,9   | 1,2   | 0,9   | 1,0   |
| Congenital malformations        | 5,6  | 3,9  | 4,1  | 4,8  | 3,6   | 3,5   | 3,6   | 2,0   | 2,1   | 2,1   |
| Other diseases of early infancy | 8,6  | 13,4 | 14,7 | 13,3 | 10,0  | 11,7  | 9,9   | 6,9   | 6,3   | 0,3   |
| Other causes                    | 13,5 | 10,9 | 10,4 | 11,1 | 7,3   | 4,2   | 5,8   | 3,3   | 3,7   | 11,1  |
| All causes                      | 78   | 78   | 78   | 79   | 58    | 58    | 59    | 46    | 38    | 46    |

\*Rates based on notified births.

## PRINCIPAL CAUSES OF INFANT MORTALITY 1973.

## Whites

|            | Code    | Cause                       | Deaths |  |  |
|------------|---------|-----------------------------|--------|--|--|
| 1          | 774-6   | Prematurity                 | 13     |  |  |
| 2          | 750-9   | Congenital malformations    | 10     |  |  |
| 3          | 795     | Other miscellaneous causes  | 7      |  |  |
| 4          | 772-3   | Nutritional Maladjustment   | 6      |  |  |
| 5          | 762     | Post Natal asphyxia         | 3      |  |  |
| 6          | 770-1   | Haemorrhagic and Haemolytic | 3      |  |  |
| 7          | 760-1   | Birth Injury                | 2      |  |  |
| 8          | 340     | Meningitis                  | 2      |  |  |
| 9          | 571,764 | Gastro-enteritis            | 1      |  |  |
| 10         | E924-5  | Suffocation (overlying)     | 1      |  |  |
| All Causes |         |                             | 48     |  |  |

0

100

200

300

## Non-Whites

|            | Code                | Cause                           | Deaths |  |  |
|------------|---------------------|---------------------------------|--------|--|--|
| 1          | 571,764             | Gastro Enteritis                | 214    |  |  |
| 2          | 490-3, 763<br>500-2 | Bronchitis & Pneumonia          | 167    |  |  |
| 3          | 774-6               | Prematurity                     | 150    |  |  |
| 4          | 795                 | Ill Defined & Others            | 57     |  |  |
| 5          | 772-3               | Nutritional maladjustment       | 47     |  |  |
| 6          | 750-9               | Congenital Malformations        | 38     |  |  |
| 7          | 762                 | Post Natal Asphyxia             | 36     |  |  |
| 8          | 340                 | Meningitis                      | 27     |  |  |
| 9          | 085-6               | Measles                         | 23     |  |  |
| 10         | 760-1               | Birth Injury                    | 19     |  |  |
| 11         | 053                 | Septicaemia                     | 14     |  |  |
| 12         | 279-289             | Avitaminosis                    | 13     |  |  |
| 13         | 020                 | V.D. (Congenital)               | 8      |  |  |
| 14         | 770-1               | Haemolytic & Haemorrhagic       | 5      |  |  |
| 15         | 001-019             | Tuberculosis                    | 5      |  |  |
| 16         | 765-9               | Other Diseases of Early Infancy | 5      |  |  |
| 17         | 055                 | Diphtheria                      | 4      |  |  |
| 18         | 056                 | Whooping Cough                  | 2      |  |  |
| 19         | E924-5              | Suffocation (overlying)         | 2      |  |  |
| 20         | 061                 | Tetanus Neonatorum              | 1      |  |  |
| All causes |                     |                                 | 837    |  |  |

0

100

200

300

## REPORT OF THE MEDICAL OFFICER OF HEALTH

25.

## Coloured

| Code                 | Cause                           | Deaths |  |
|----------------------|---------------------------------|--------|--|
| 1 490-3,763<br>500-2 | Bronchitis & Pneumonia          | 119    |  |
| 2 774-6              | Prematurity                     | 117    |  |
| 3 571,764            | Gastro-enteritis                | 114    |  |
| 4 795                | Ill Defined & Others            | 35     |  |
| 5 772-3              | Nutritional Maladjustment       | 34     |  |
| 6 750-9              | Congenital Malformations        | 28     |  |
| 7 340                | Meningitis                      | 23     |  |
| 8 762                | Post Natal Asphyxia             | 21     |  |
| 9 085-6              | Measles                         | 16     |  |
| 10 760-1             | Birth Injury                    | 13     |  |
| 11 053               | Septicaemia                     | 10     |  |
| 12 020               | V.D. (Congenital)               | 7      |  |
| 13 279-289           | Avitaminosis                    | 6      |  |
| 14 770-1             | Haemolytic & Haemorrhagic       | 4      |  |
| 15 765-9             | Other Diseases of early Infancy | 4      |  |
| 16 055               | Diphtheria                      | 4      |  |
| 17 001-019           | Tuberculosis                    | 3      |  |
| 18 E924-5            | Suffocation (Overlying)         | 2      |  |
| 19 056               | Whooping Cough                  | 2      |  |
| All Causes           |                                 | 562    |  |

0 100 200

## Bantu

| Code                 | Cause                           | Deaths |  |
|----------------------|---------------------------------|--------|--|
| 1 571,764            | Gastro-enteritis                | 98     |  |
| 2 490-3,763<br>500-2 | Bronchitis & Pneumonia          | 48     |  |
| 3 774-6              | Prematurity                     | 33     |  |
| 4 795                | Ill Defined & Others            | 21     |  |
| 5 762                | Post Natal Asphyxia             | 14     |  |
| 6 772-3              | Nutritional Maladjustment       | 12     |  |
| 7 750-9              | Congenital Malformations        | 8      |  |
| 8 085-6              | Measles                         | 7      |  |
| 9 279-289            | Avitaminosis                    | 7      |  |
| 10 760-1             | Birth Injury                    | 6      |  |
| 11 053               | Septicaemia                     | 4      |  |
| 12 340               | Meningitis                      | 4      |  |
| 13 001-019           | Tuberculosis                    | 2      |  |
| 14 020               | V.D. (Congenital)               | 1      |  |
| 15 061               | Tetanus                         | 1      |  |
| 16 765-9             | Other Diseases of Early Infancy | 1      |  |
| 17 770-1             | Haemolytic and Haemorrhagic     | 1      |  |
| All Causes           |                                 | 268    |  |

0 100

The following table shows the corrected number of peri-natal (stillbirths and deaths in the first week of life), neo-natal and post neo-natal deaths for the various races and the corresponding rates per 1 000 live births. The peri-natal rate is based on live and stillbirths combined.

| PERI NATAL PERIOD     |        |      |   |      |  |
|-----------------------|--------|------|---|------|--|
|                       | Deaths |      | Rate per 1 000 deliveries<br>based on births and still births |      |  |
|                       | 1972   | 1973 | 1972  | 1973 |  |
| White                 | ( 67)  | 61   | 16  | 16   |  |
| Coloured              | (420)  | 455  | 29  | 32   |  |
| Bantu                 | (163)  | 167  | 43  | 41   |  |
| Asiatic               | ( 6)   | 6    | 32  | 24   |  |
| Non-White             | (589)  | 628  | 32  | 34   |  |
| All races             | (656)  | 689  | 29  | 31   |  |
| NEO NATAL PERIOD      |        |      |   |      |  |
|                       | Deaths |      | Rate per 1 000 live births                                    |      |  |
|                       | 1972   | 1973 | 1972  | 1973 |  |
| White                 | ( 39)  | 37   | 10  | 10   |  |
| Coloured              | (228)  | 255  | 16  | 18   |  |
| Bantu                 | ( 55)  | 88   | 15  | 22   |  |
| Asiatic               | ( 3)   | 4    | 16  | 16   |  |
| Non-White             | (286)  | 347  | 16  | 19   |  |
| All races             | (325)  | 384  | 15  | 17   |  |
| POST NEO NATAL PERIOD |        |      |   |      |  |
|                       | Deaths |      | Rate per 1 000 live births                                    |      |  |
|                       | 1972   | 1973 | 1972  | 1973 |  |
| White                 | ( 14)  | 11   | 3   | 3    |  |
| Coloured              | (279)  | 307  | 20  | 22   |  |
| Bantu                 | (122)  | 180  | 33  | 46   |  |
| Asiatic               | ( - )  | 3    | -   | 12   |  |
| Non-White             | (401)  | 490  | 22  | 27   |  |
| All races             | (415)  | 501  | 19  | 23   |  |

Compared with the previous year, in which annual deaths were again estimated, there was an increase of 18% in neo-natal and 21% in post-neo natal deaths.

The next table shows the variation in the peri-natal, neo-natal and post neo-natal rates over a period of five years:-

| Year                  | White      |           |                   | Non-White  |           |                   |
|-----------------------|------------|-----------|-------------------|------------|-----------|-------------------|
|                       | Peri-natal | Neo-natal | Post<br>neo-natal | Peri-natal | Neo-natal | Post<br>neo-natal |
| 1969                  | 20         | 14        | 4                 | 38         | 22        | 36                |
| 1970                  | 15         | 10        | 6                 | 37         | 21        | 38                |
| 1971                  | 15         | 8         | 5                 | 34         | 19        | 27                |
| 1972                  | 16         | 10        | 3                 | 32         | 16        | 22                |
| 1973                  | 16         | 10        | 3                 | 34         | 19        | 27                |
| Average 1969–<br>1973 | 16         | 10        | 4                 | 35         | 19        | 30                |

#### SEASONAL VARIATION

The seasonal variation in infant mortality is shown in the following table and in Table E on page 96 where the infant deaths for the year 1973 are classified for certain causes.

|                       | 1968  | 1969  | 1970  | 1971  | 1972  | Mean<br>5 years | 1973  |
|-----------------------|-------|-------|-------|-------|-------|-----------------|-------|
| January               | 106   | 90    | 111   | 87    | 61    | 91              | 75    |
| February              | 88    | 104   | 116   | 108   | -     | 104             | 53    |
| March                 | 98    | 104   | 70    | 75    | -     | 87              | 84    |
| April                 | 102   | 79    | 111   | 89    | -     | 95              | 56    |
| May                   | 92    | 77    | 75    | 66    | -     | 78              | 90    |
| June                  | 104   | 89    | 67    | 79    | -     | 85              | 86    |
| July                  | 70    | 109   | 91    | 66    | 64    | 80              | 83    |
| August                | 77    | 97    | 80    | 67    | 71    | 78              | 81    |
| September             | 74    | 76    | 74    | 57    | 52    | 67              | 81    |
| October               | 60    | 85    | 71    | 54    | 50    | 64              | 62    |
| November              | 58    | 64    | 87    | 70    | 84    | 73              | 69    |
| December              | 87    | 98    | 102   | 46    | 50    | 77              | 65    |
| TOTAL                 | 1 016 | 1 072 | 1 055 | 864   | 432   | 979             | 885   |
| Mean                  | 84,7  | 89,3  | 87,9  | 72,0  | 61,7  | 81,6            | 73,8  |
| Per 1 000 live births | 48,6* | 50,5* | 50,3* | 39,2* | 33,5* | 45,6*           | 40,2* |

\* Based on notified Births.

The infant mortality in respect of legitimate and illegitimate infants amongst the various races is shown in the following table.

| Race      | Rate per 1 000 live births, based on Notifications |      |              |       |
|-----------|--|------|--------------|-------|
|           | Legitimate   |      | Illegitimate |       |
|           | 1972   | 1973 | 1972         | 1973  |
| White     | 11,0   | 12,1 | 18,6         | 7,9   |
| Coloured  | 26,3   | 27,1 | 43,9         | 48,3  |
| Bantu     | 33,0   | 39,7 | 41,4         | 59,8  |
| Asiatic   | 16,8   | 20,5 | —            | 166,7 |
| Non-White | 27,2   | 29,1 | 43,2         | 51,8  |
| All races | 23,2   | 25,1 | 41,9         | 49,5  |

The deaths of 148 infants under one year of age are excluded from above figures as information regarding legitimacy was unobtainable.

#### MATERNAL MORTALITY

The following table shows the corrected number of deaths from causes ascribed to pregnancy and childbirth including abortion, and the corresponding rate per 1 000 total deliveries (live and still births).

| Int. Code No. | Cause of death  | Deaths |       |           | Maternal mortality rates |
|---------------|---|--------|-------|-----------|--------------------------|
|               |   | White  | Non-W | All races |                          |
| 681           | Puerperal fever   | —      | 1     | 1         | 0,04                     |
| 640,641       | Other puerperal septicaemia                                     | —      | —     | —         | —                        |
| 651,682       | (including abortion with sepsis)                                | —      | 1     | 1         | 0,04                     |
| 684           |   | —      | —     | —         | —                        |
| 642,652       | Toxaemia of pregnancy and the puerperium                        | —      | 1     | 1         | 0,04                     |
| 685–686       | Haemorrhage of pregnancy and childbirth                         | —      | —     | —         | —                        |
| 643–644       | Abortion without mention of sepsis or toxæmia                   | —      | —     | —         | —                        |
| 670–672       | Other complications of pregnancy, childbirth and the puerperium | —      | —     | —         | —                        |
| 650           |   | —      | —     | —         | —                        |
| 645–649,660   |   | —      | —     | —         | —                        |
| 673–680       |   | —      | —     | —         | —                        |
| 683           |   | —      | —     | —         | —                        |
| 687–689       |   | —      | —     | —         | —                        |
|               | All causes (except puerperal septicaemia)                       | —      | 1     | 1         | 0,04                     |
|               | TOTAL   | —      | 3     | 3         | 0,13                     |

Three fatalities (all Coloured) occurred during the year, the same number as recorded in the previous year. Magisterial inquests were held in two cases, one following abortion. One further inquest was held on a case from outside the area who died from peritonitis following an induced abortion.

The maternal mortality rates per 1 000 deliveries in 1973 and previous years were as follows:—

|      | Puerperal septicaemia |       |           | Other causes |       |           | All causes |       |           |
|------|-----------------------|-------|-----------|--------------|-------|-----------|------------|-------|-----------|
|      | W                     | Non-W | All races | W            | Non-W | All races | W          | Non-W | All races |
| 1969 | —                     | 0,11  | 0,09      | 0,25         | 0,34  | 0,32      | 0,25       | 0,45  | 0,42      |
| 1970 | —                     | 0,29  | 0,23      | 0,24         | 0,47  | 0,42      | 0,24       | 0,76  | 0,66      |
| 1971 | —                     | 0,17  | 0,13      | —            | 0,50  | 0,42      | —          | 0,66  | 0,54      |
| 1972 | —                     | 0,11  | 0,09      | —            | 0,16  | 0,13      | —          | 0,27  | 0,22      |
| 1973 | —                     | 0,11  | 0,09      | —            | 0,05  | 0,04      | —          | 0,16  | 0,13      |

**SECTION III — MATERNAL AND CHILD WELFARE**

**DR. K B SUNDGREN**  
**MATERNAL AND CHILD WELFARE OFFICER**

This Branch is, in the main, responsible for health education and for preventive work amongst expectant mothers and pre-school children. The main activities of the Branch are set out in the following pages and in the carrying out of these duties the staff of 45 health visitors and 66 clinic sisters are guided and controlled by six full-time and 40 part-time medical officers.

Clinic sessions are held at 40 municipal and other centres in the city and suburbs. These centres are sited as near as possible to the homes of the population groups which they have been designed to serve. 34 clinics now operate in specially constructed municipal buildings and 6 halls hired for the purpose.

At these centres infant and child welfare, school clinics, ante-natal, post-natal and immunising sessions are held. The table on page 29 indicates the attendances at the various session at the centres during the year.

The intensive programme of immunisation against poliomyelitis, diphtheria, whooping cough and tetanus has been continued throughout the year. Smallpox vaccination of infants is now also carried out at the immunising sessions; nurses are being trained and 8 have been registered as lay vaccinators.

The immunisation of newborns by the use of B.C.G. vaccine has also been continued; those born in maternity institutions are vaccinated there by the Paediatric staff members of those hospitals, while those born at home are vaccinated at special sessions conducted by the Branch's staff at the various child welfare centres. Per-cutaneous B.C.G. is administered by a 20 needle Heaf gun. 25 956 newborns were vaccinated by this method against tuberculosis during the year.

**CHILD WELFARE SESSIONS**

During the year an average of 68 child welfare sessions were held weekly and 5 fortnightly.

At these sessions 369 275 attendances were recorded of which 19 643 were new cases. 2 193 White and 16 875 non-White were under one year of age at their first attendance and 27 White and 548 non-White were over one year of age.

These figures show an increase of 6 128 attendances over the previous year and the number of new cases fell by 305.

First attendances of children under one year of age were less than the number of notified births. Of these, White attendances amounted to 58% and non-White attendances to 92.4% of the births notified to the Department.

The attendances at the child welfare sessions over a period of years are shown in the following table.

| Centre                    | 1969           | 1970           | 1971           | 1972           | 1973           |
|---------------------------|----------------|----------------|----------------|----------------|----------------|
| Camps Bay                 | 939            | 657            | 597            | 676            | 660            |
| Sea Point                 |                | 454            | 1 278          | 1 250          | 1 486          |
| Green Point               | 1 449          | 1 427          | 1 403          | 1 174          |                |
| Kloof Street              | 2 417          | 2 661          | 2 656          | 2 672          | 2 093          |
| Shortmarket Street        | 5 727          | 4 753          | 4 500          | 4 589          | 4 084          |
| Aspeling Street           | 13 362         | 13 265         | 12 649         | 12 804         | 11 656         |
| Bloemhof                  | 8 105          | 7 606          | 6 346          | 4 924          | 3 303          |
| Devil's Peak              | 1 674          | 1 229          | 1 524          | 1 455          | 962            |
| Salt River                | 12 639         | 9 858          | 8 949          | 10 137         | 9 819          |
| Brooklyn                  | 2 770          | 2 317          | 1 857          | 1 962          | 1 748          |
| Maitland                  | 3 786          | 3 190          | 2 784          | 3 257          | 3 135          |
| Kensington                | 19 101         | 16 196         | 17 927         | 16 030         | 13 485         |
| Factreton                 | 9 224          | 8 413          | 8 145          | 6 974          | 6 238          |
| Thornton                  |                |                | 510            | 594            | 543            |
| Langa                     | 2 946          | 2 800          | 2 944          | 3 387          | 3 392          |
| Guguletu 1                | 9 543          | 8 758          | 10 387         | 12 218         | 14 592         |
| Guguletu 111              | 7 173          | 7 463          | 7 941          | 8 006          | 6 696          |
| Athlone                   | 15 388         | 14 603         | 15 150         | 16 194         | 14 846         |
| Bokmakierie               | 12 903         | 8 963          | 10 332         | 11 234         | 9 640          |
| Silvertown                | 17 504         | 16 087         | 15 519         | 16 893         | 15 973         |
| Bonteheuwel               | 33 042         | 28 984         | 28 467         | 27 586         | 25 855         |
| Netreg                    | 19 477         | 15 083         | 16 776         | 12 606         | 14 578         |
| Heideveld                 | 25 164         | 22 628         | 20 954         | 19 477         | 19 117         |
| Manenberg                 | 34 357         | 45 480         | 56 694         | 47 544         | 48 853         |
| Hanover Park              |                | 856            | 25 201         | 43 453         | 47 125         |
| Newfields                 |                |                |                |                | 186            |
| Claremont (Station Road)  | 8 469          | 7 685          | 5 827          | 5 358          | 4 383          |
| Claremont (Wesley Street) | 5 583          | 5 372          | 4 728          | 4 022          | 3 267          |
| Lansdowne                 | 13 167         | 13 963         | 12 272         | 13 750         | 13 611         |
| Bergvliet                 |                |                |                |                | 350            |
| Wynberg                   | 6 814          | 6 076          | 6 600          | 6 401          | 6 364          |
| Ottery                    |                |                | 461            | 323            | 179            |
| Southfield                | 450            | 676            | 867            | 1 043          | 1 182          |
| Parkwood                  | 4 242          | 9 039          | 12 719         | 12 081         | 12 252         |
| Elfdale                   |                |                |                |                | 1 249          |
| Heathfield                | 6 348          | 5 566          | 4 570          | 4 129          | 2 002          |
| 11th Avenue               |                |                |                |                |                |
| Retreat                   | 39 695         | 29 068         | 23 412         | 25 066         | 35 436         |
| Lavender Hill             |                |                |                |                | 3 088          |
| Muizenberg (John Power)   | 5 763          | 5 346          | 3 796          | 3 458          | 5 454          |
| Muizenberg                |                |                |                |                | 40             |
| Kalk Bay                  | 784            | 690            | 597            | 420            | 353            |
| <b>TOTALS</b>             | <b>350 005</b> | <b>327 212</b> | <b>357 339</b> | <b>363 147</b> | <b>369 275</b> |

## CHILD WELFARE BRANCH 1973

| Centre                                 | Race                        | Infant Consultations |                           |                  | Pre-Natal Clinics            |                |                  | School Clinics         |           | Dinners                 |                       |              |
|--|-----------------------------|----------------------|---------------------------|------------------|------------------------------|----------------|------------------|------------------------|-----------|-------------------------|-----------------------|--------------|
|  |                             | Ses-sions            | 1st Attendances           |                  | Total Attend-ances           | Ses-sions      | Attendances      |                        | Ses-sions | Attendances             |                       | Ses-sions    |
|  |                             |                      | Under 1 year              | Over 1 year      |                              |                | 1st              | Total                  |           | 1st                     | Total                 |              |
| Camps Bay                              | White                       | 24                   | 72                        | 1                | 660                          |                |                  |                        |           |                         |                       |              |
| Sea Point                              | "                           | 27                   | 228                       | 1                | 1 486                        |                |                  |                        |           |                         |                       |              |
| Kloof Street                           | "                           | 50                   | 188                       |                  | 2 093                        |                |                  |                        |           |                         |                       |              |
| Shortmarket Street                     | Non-W                       | 101                  | 341                       | 1                | 4 084                        |                |                  |                        | 6         | 33                      | 150                   |              |
| Aspelng Street                         | "                           | 148                  | 710                       | 1                | 11 656                       | 51             | 775              | 1 490                  | 14        | 200                     | 829                   | 74 532       |
| Bloemhof                               | "                           | 75                   | 194                       | 1                | 3 303                        |                |                  |                        |           |                         |                       |              |
| Devil's Peak                           | White                       | 41                   | 114                       | 2                | 962                          |                |                  |                        |           |                         |                       |              |
| Salt River                             | White<br>Non-W<br>All Races | 148                  | 220<br>453<br>673         | 2<br>4<br>6      | 2 332<br>7 487<br>9 819      | 24             | 18<br>247<br>260 | 17<br>471<br>488       | 186       | 98<br>1 137<br>1 235    | 578<br>5 132<br>5 710 |              |
| Brooklyn                               | White                       | 50                   | 176                       | 2                | 1 748                        |                |                  |                        |           |                         |                       |              |
| Maitland                               | White<br>Non-W<br>All Races | 99                   | 102<br>159<br>261         | 3<br>4<br>7      | 1 017<br>2 118<br>3 135      | 25             | 106<br>106       | 1<br>282<br>283        | 5         | 58<br>58                | 449<br>449            |              |
| Kensington                             | Non-W                       | 151                  | 754                       |                  | 13 485                       | 35             | 563              | 1 014                  | 7         | 193                     | 654                   | 225 4 668    |
| Factreton                              | "                           | 48                   | 404                       | 2                | 6 238                        |                |                  |                        |           |                         |                       |              |
| Thornton                               | White                       | 24                   | 49                        |                  | 543                          |                |                  |                        |           |                         |                       |              |
| Langa                                  | Bantu                       | 48                   | 520                       | 29               | 3 392                        | 50             | 769              | 2 178                  |           |                         |                       |              |
| Guguletu Sect. 1<br>Guguletu Sect. 111 | "<br>"                      | 122<br>99            | 2 102<br>928              | 136<br>42        | 14 592<br>6 696              | 101<br>50      | 2 039<br>915     | 6 673<br>2 935         |           |                         |                       |              |
| Athlone                                | Non-W                       | 150                  | 767                       | 2                | 14 846                       | 50             | 581              | 2 207                  | 6         | 70                      | 227                   |              |
| Bokmakierie                            | "                           | 106                  | 418                       |                  | 9 640                        | 49             | 403              | 1 747                  | 102       | 830                     | 3 732                 | 11 616       |
| Silvertown                             | "                           | 148                  | 889                       | 1                | 15 973                       | 48             | 766              | 3 169                  |           |                         |                       |              |
| Bonteheuwel                            | "                           | 198                  | 869                       | 3                | 25 855                       | 58             | 1 123            | 4 143                  | 14        | 107                     | 387                   |              |
| Netreg                                 | "                           | 149                  | 381                       | 8                | 14 578                       |                |                  |                        |           |                         |                       |              |
| Heideveld                              | "                           | 153                  | 724                       |                  | 19 117                       | 48             | 645              | 1 448                  |           |                         |                       |              |
| Manenberg                              | "                           | 248                  | 1 335                     | 12               | 48 853                       | 50             | 1 197            | 1 671                  | 7         | 82                      | 216                   | 1 182 14 462 |
| Newfields                              | "                           | 13                   | 26                        |                  | 186                          |                |                  |                        |           |                         |                       |              |
| Hanover Park                           | "                           | 248                  | 1 199                     | 100              | 47 125                       | 82             | 1 153            | 5 461                  |           |                         |                       | 1 133 15 961 |
| Claremont<br>(Station Road)            | White<br>Non-W<br>All Races | 107                  | 454<br>15<br>469          | 1<br>1           | 4 146<br>237<br>4 383        |                | 360<br>360       | 1 094<br>1 094         | 7<br>7    | 27<br>27                | 135<br>135            |              |
| Claremont<br>(Wesley Street)           | Non-W                       | 88                   | 192                       | 1                | 3 267                        |                |                  |                        |           |                         |                       | 86 514       |
| Lansdowne                              | White<br>Non-W<br>All Races | 197                  | 109<br>787<br>896         | 3<br>2<br>5      | 1 307<br>12 304<br>13 611    | 51<br>51<br>51 | 547<br>547       | 2 270<br>2 270         |           |                         |                       |              |
| Wynberg                                | White<br>Non-W<br>All Races | 97                   | 168<br>328<br>496         | 1<br>1           | 1 321<br>5 043<br>6 364      | 51<br>51<br>51 | 4<br>260<br>264  | 6<br>1 108<br>1 114    | 5<br>5    | 7<br>7                  | 94<br>94              |              |
| Ottery                                 | White                       | 8                    | 34                        |                  | 179                          |                |                  |                        |           |                         |                       |              |
| Southfield                             | "                           | 28                   | 158                       | 1                | 1 182                        |                |                  |                        |           |                         |                       |              |
| Parkwood                               | Non-W                       | 104                  | 467                       | 20               | 12 252                       | 52             | 417              | 1 846                  |           |                         |                       | 1 699 8 950  |
| Bergvleit                              | White                       | 11                   | 56                        |                  | 350                          |                |                  |                        |           |                         |                       |              |
| Elfindale                              | Non-W                       | 28                   | 51                        | 1                | 1 249                        |                |                  | 3                      |           |                         |                       |              |
| Lavender Hill                          | "                           | 23                   | 106                       | 8                | 3 088                        |                |                  |                        |           |                         |                       |              |
| Heathfield                             | White<br>Non-W<br>All Races | 38                   | 46<br>85<br>131           | 10<br>4<br>14    | 378<br>1 624<br>2 002        |                |                  |                        |           |                         |                       |              |
| Retreat                                | Non-W                       | 199                  | 1 457                     | 160              | 35 436                       | 98             | 1 733            | 6 029                  | 13        | 107                     | 894                   | 886 3 978    |
| John Power                             | "                           | 53                   | 193                       | 5                | 5 454                        |                |                  |                        |           |                         |                       |              |
| Muizenberg                             | White                       | 6                    | 16                        |                  | 40                           |                |                  |                        |           |                         |                       |              |
| Kalk Bay                               | White<br>Non-W<br>All Races | 23                   | 3<br>21<br>24             | 1                | 5<br>348<br>353              | 19<br>19       | 16<br>16         | 66<br>66               |           |                         |                       |              |
| <b>TOTAL</b>                           | White<br>Non-W<br>All Races | 3 678                | 2 193<br>16 875<br>19 068 | 27<br>548<br>575 | 19 749<br>349 526<br>369 275 | 1 163          | 14 615<br>14 632 | 24<br>43 705<br>43 729 | 98<br>389 | 578<br>12 899<br>13 477 | 5 285<br>5 285        | 60 681       |

## SOUTH AFRICAN MOTHERCRAFT TRAINING CENTRE

(Lady Buxton Home)

The following table shows the number of infants who attended the consultations of the South African Mothercraft Training Centre during the year.

| Voluntary Centre           | No. of sessions in the year | No. of new cases (Infants) | Total attendances (Infants) |
|----------------------------|-----------------------------|----------------------------|-----------------------------|
| Bowwood Road,<br>Claremont | 400                         | 855                        | 6 704                       |
| Meadowridge                | 23                          | 45                         | 474                         |

## ADVISORY WORK AT CHILD WELFARE SESSIONS

At the sessions mothers are advised on correct feeding and hygiene of infants and pre-school children.

Breast feeding is encouraged and sessions are held by the health visitors at which instructional test feeds are performed.

Dried milk for infants who cannot be entirely breast fed, and supplementary milk for children at risk or with protein malnutrition is supplied at the centres under the direction of the medical officers, at cost or below cost, to those mothers unable to afford the full retail price. In cases of poverty the milk may be supplied free. Vitamin oil and such medicines as may be ordered are supplied on similar terms.

During the year 1 184 new cases were supplied with dried milk powder. A total of 66 516 kg. (146 335 lbs), fortified with Vitamin D and iron supplement, together with 4 095 kg. (9 009 lbs) of Council skim milk was issued.

The pilot scheme started in 1961 for the distribution of powdered skim milk to necessitous toddler groups and subsidised by the State Health Service was continued on a permanent basis. The subsidy has been increased from time to time and for the greater part of the year was 36c per kg. This milk is distributed to indigent pre-school toddlers showing signs of malnutrition, in an effort to prevent the development of kwashiorkor. More than 2 400 children were supplied with this milk each week and during the year a total of 63 120 kg. (138 864 lbs) was issued.

The scheme has resulted in a much larger toddler attendance at municipal child welfare clinics and an improvement in the general standard of nutrition among this group.

## MEDICAL EXAMINATION

All infants attending welfare centres are medically examined at their first visit, and periodically thereafter. Children requiring special treatment are referred to hospital, but owing to the lack of facilities in certain areas, many of the clinics tend to be a regular paediatric out-patients service, and it is estimated that 50–80% of cases seen by the medical officer at a clinic need curative therapy. Day hospitals will in due course alter this tendency but at present the effect is small as far as child welfare clinics are concerned.

## SUPPLEMENTARY FEEDING

At 8 centres supplementary meals were served throughout the year from Monday to Friday to indigent expectant and nursing mothers and pre-school children.

These meals consist of soup, cheese, fruit and enriched bread spread with a mixture of margarine, peanut butter, food yeast and golden syrup. Skimmed milk was supplied at 5 of these centres.

## HEALTH VISITING IN THE HOME

Home visiting is the most important aspect of the work of the health visitor, since it aims at teaching the mother the care of her child in relation to the home. Visits are made soon after an infant's birth and thereafter as frequently as the health visitor's time permits but not less frequently than every three months during the first year.

The health visitors undertake home visiting for children under school age, visiting of expectant mothers, and in addition the visiting required for ophthalmia neonatorum, puerperal fever, whooping cough and other infectious ailments of childhood. Each health visitor assists at sessions held at the centre which lies in her district.

The full complement of health visiting staff on 31 December 1973 was as follows:—

|                              | White | Coloured | Bantu | TOTAL |
|------------------------------|-------|----------|-------|-------|
| Chief Health Visitor         | 1     |          |       | 1     |
| Senior Health Visitor        | 3     | 1        |       | 4     |
| Health Visitors              | 13    | 30       | 7     | 50    |
| Social Worker                | 1     |          |       | 1     |
| Supervisor (Family Planning) | 1     |          |       | 1     |
| Learner Public Health Nurses | 1     | 2        | 1     | 4     |
| Clinic Sisters               | 18    | 23       |       | 41    |
| Clinic Assistants            | 5     | 14       | 5     | 24    |
| Clinic Nurses                |       |          | 4     | 4     |
| Nursing Assistants           |       | 5        |       | 5     |
|                              | 43    | 75       | 17    | 135   |

Special duties are performed by 27 of the health visitors and clinic sisters:—

|  |    |
|--|----|
| Diphtheria, poliomyelitis and B.C.G. vaccination ..... | 12 |
| Ophthalmia clinics and visiting .....                  | 1  |
| Supervisor of Midwifery .....                          | 1  |
| Family planning .....                                  | 13 |

The following table shows the number of visits made during 1973 and the previous year by health visitors and the social welfare worker. Visits made by the health visitors of the tuberculosis and venereal diseases branches are included here for convenience.

Visits in connection with:-

|                           | 1972          | 1973          |
|---------------------------|---------------|---------------|
| Births .....              | 19 102        | 19 624        |
| Subsequent revisits ..... | 118 432       | 112 484       |
| Child deaths .....        | 560 *         | 815           |
| Expectant mothers .....   | 1 021         | 1 125         |
| Midwives .....            | 2 656         | 2 569         |
| Orthopaedic .....         | 13            | 27            |
| Schools .....             | 387           | 605           |
| Protected infants .....   | 593           | 741           |
| Social Welfare .....      | 5 320         | 6 677         |
| Infectious diseases ..... | 2 850         | 4 451         |
| Other visits .....        | <u>25 624</u> | <u>34 400</u> |
|                           | 176 558       | 183 515       |
| Tuberculosis .....        | 36 848        | 37 220        |
| Venereal diseases .....   | <u>1 207</u>  | <u>1 197</u>  |
|                           | 214 613       | 221 932       |

\* Information concerning deaths was unobtainable for the period February to June, with a consequent reduction of visits.

PRE-NATAL CLINICS

Pre-natal sessions are conducted at all the larger centres and the work is carried out in close co-operation with the public maternity hospitals which fall either under the Provincial Administration or charitable organisations.

In view of the inadequate number of maternity beds in Cape Town, the Provincial Administration's maternity hospitals limit admissions as far as possible to primiparae, abnormal confinements, women who have had 8 or more pregnancies, and those where bad socio-economic conditions preclude confinement at home. Women attending the ante-natal clinics are referred to one or other local maternity institutions where hospital confinement is considered advisable for any of the above reasons.

The ante-natal clinics of the Provincial Hospitals function as follows: The Peninsula Maternity Services functioning at Groote Schuur Hospital out-patient department undertake the bookings for Groote Schuur hospital, Mowbray Maternity hospital and the Peninsula Maternity hospital. They see women referred from the southern zone of the City Council area, while Somerset hospital and St. Monica's home see patients from the Northern Zone. Women booked for hospital delivery must attend hospital for their ante-natal care.

5 756 cases were attended by private midwives in their own homes, and most of these women attended the welfare centres for ante-natal care.

During the year, an average of 21 pre-natal sessions were held weekly and 3 fortnightly at which there were 14 632 new cases. The total attendances numbered 43 729 details of which are shown below.

The number of new cases attending the municipal pre-natal sessions amounted to 66% of the number of notified live births (0,4% White and 80,0% non-White).

Midwives working within the municipal area are supervised by the department's supervisor of midwives and are encouraged to attend the pre-natal centre with their patients to see the doctor.

Routine serological tests for syphilis are carried out on all women attending pre-natal sessions and specific treatment is provided for those requiring it. 10 244 blood specimens were taken during the year (23 Whites and 10 221 non-White). Of these 1 118 gave positive or doubtful reactions.

Routine tests are done by the Provincial Blood Transfusion laboratory on all women attending ante-natal sessions to ascertain their blood-grouping. Those who proved to be Rhesus negative are further investigated and referred to hospital if necessary.

Routine testing for haemoglobin levels of all women attending ante-natal sessions is done by the provincial blood transfusion laboratory. Special arrangements have been made, in co-operation with Groote Schuur Hospital to deal with severe cases of anaemia found in pregnant women.

The attendances at the pre-natal clinics in the welfare centres over a period of years are shown in the following table:-

| Centre                   | 1969          | 1970          | 1971          | 1972          | 1973          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Shortmarket Street       | 347           |               |               |               |               |
| Aspeling Street          | 1 334         | 1 762         | 1 732         | 1 617         | 1 490         |
| Slat River               | 475           | 479           | 408           | 452           | 488           |
| Maitland                 | 345           | 141           | 140           | 334           | 283           |
| Kensington               | 2 088         | 1 737         | 1 537         | 1 608         | 1 014         |
| Langa                    | 1 570         | 1 875         | 1 859         | 1 949         | 2 178         |
| Guguletu 1               | 5 207         | 4 939         | 4 949         | 6 266         | 6 673         |
| Guguletu 111             | 2 388         | 2 465         | 3 062         | 3 179         | 2 935         |
| Athlone                  | 3 339         | 3 196         | 2 898         | 2 540         | 2 207         |
| Bokmakierie              | 2 299         | 1 288         | 1 543         | 1 537         | 1 747         |
| Silvertown               | 2 303         | 2 156         | 2 659         | 3 253         | 3 169         |
| Bonteheuwel              | 4 776         | 4 933         | 5 258         | 4 891         | 4 143         |
| Heideveld                | 2 671         | 1 492         | 1 974         | 1 925         | 1 448         |
| Manenberg                | 2 913         | 2 601         | 2 399         | 1 801         | 1 671         |
| Hanover Park             |               | 169           | 2 085         | 3 709         | 5 461         |
| Claremont (Station Road) | 1 853         | 1 724         | 1 685         | 1 601         | 1 094         |
| Lansdowne                | 2 195         | 2 267         | 2 198         | 2 305         | 2 270         |
| Wynberg                  | 1 448         | 1 092         | 1 247         | 1 699         | 1 114         |
| Parkwood                 |               | 778           | 1 795         | 1 759         | 1 846         |
| Elfdale                  |               |               |               |               | 3             |
| 11th Avenue, Retreat     | 5 794         | 6 349         | 5 362         | 5 483         | 6 029         |
| Kalk Bay                 | 100           | 94            | 66            | 75            | 66            |
| <b>TOTALS</b>            | <b>43 445</b> | <b>41 537</b> | <b>44 856</b> | <b>47 983</b> | <b>43 729</b> |

## POST-NATAL AND FAMILY PLANNING CLINICS

Weekly post-natal sessions are held at 18 of the Child Welfare Centres in conjunction with family planning.

Instruction in family limitation and spacing is given at these sessions where this is deemed advisable for socia-medical or other reasons.

At these sessions each woman receives a routine post-natal examination and any abnormalities found are treated or, if necessary, referred to the gynaecological department of one of the local hospitals.

Routine cytological examination on all women attending these clinics with a view to detecting early malignancy in the female genital tract was commenced in February, 1960. Where atypical cells are discovered the women are referred to a special gynaecology clinic at Groote Schuur Hospital.

|   |        |
|---|--------|
| Number of cytological examinations .....  | 15 672 |
| Number showing cells needing further investigation and referred to Gynaecology Department, Groote Schuur Hospital ..... | 103    |
|   |        |

Reports received from Groote Schuur Hospital reveal that early cancer (*Ca-in-situ*) was detected in 24 cases, and invasive cancer in 1 case. In a number of the remainder investigations are still proceeding.

## ATTENDANCES FOR THE YEAR 1973

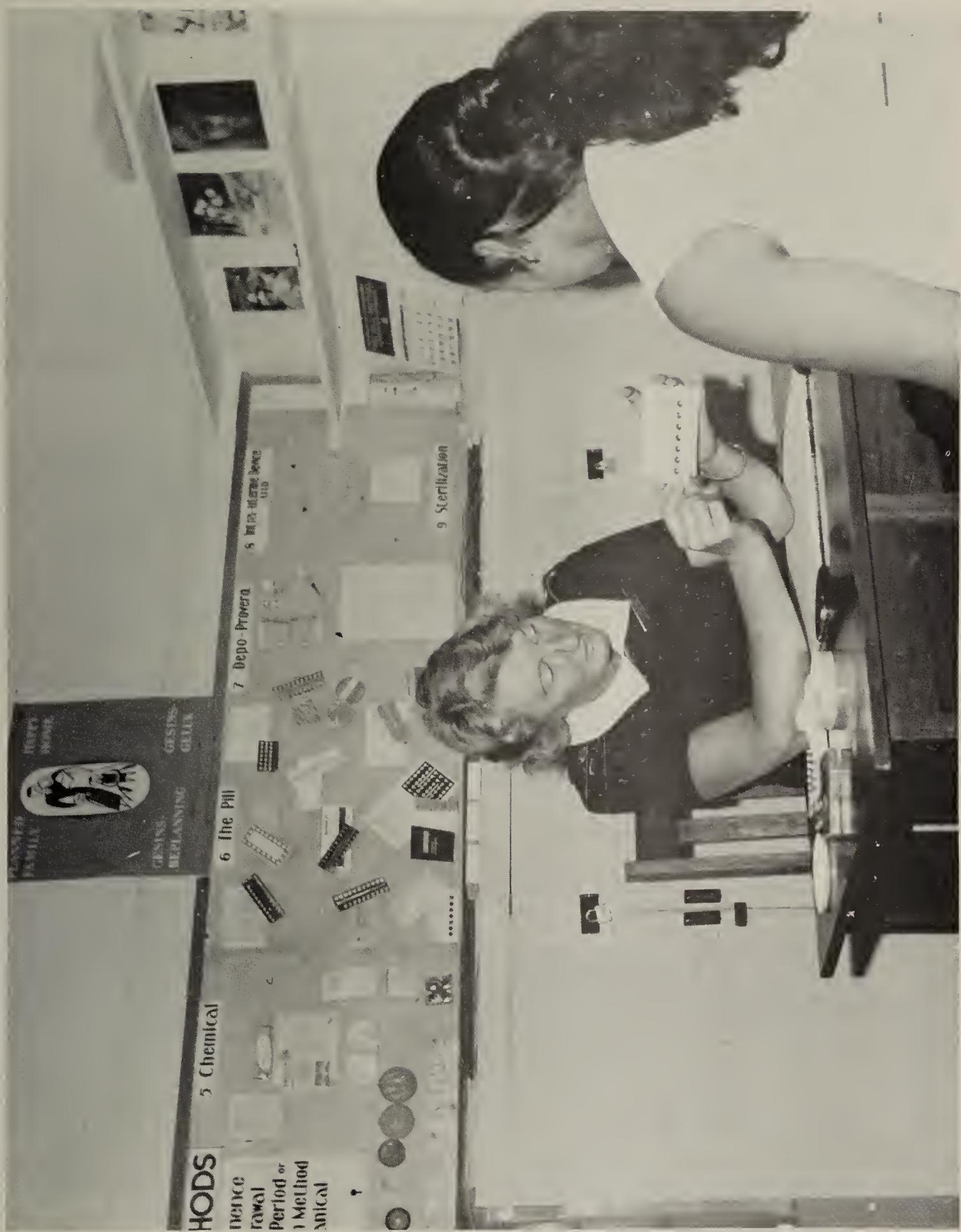
|          | INDIVIDUALS                 | 1ST ATTENDANCES | TOTAL ATTENDANCES |
|----------|-----------------------------|-----------------|-------------------|
| White    | 1 966                       | 941             | 4 653             |
| Coloured | 25 507                      | 11 279          | 70 110            |
| Bantu    | 4 767                       | 2 483           | 12 682            |
|          | <hr/> 32 240                | <hr/> 14 703    | <hr/> 87 445      |
| 1968     | 16 902                      | 8 289           | 69 934            |
| 1969     | 18 371                      | 9 676           | 80 641            |
| 1970     | 16 855                      | 9 597           | 79 696            |
| 1971     | 20 000 ( <i>Estimated</i> ) | 10 806          | 83 349            |
| 1972     | 26 841                      | 12 069          | 89 809            |

## CONTRACEPTION ANALYSIS

|          | PILLS | DEPO PROVERA INJECTIONS | INTRO UTERINE DEVICES | OTHERS |
|----------|-------|-------------------------|-----------------------|--------|
| White    | 76%   | 15%                     | 7%                    | 2%     |
| Coloured | 59%   | 34%                     | 4%                    | 3%     |
| Bantu    | 44%   | 52%                     | 4%                    | 0%     |

The individual attendances at the family planning centres over the year are shown in the following table:-

| Centre                            | 1972          | 1973          |
|-----------------------------------|---------------|---------------|
| Shortmarket Street                | 768           | 744           |
| Aspelng Street                    | 1 382         | 1 529         |
| Salt River                        | 1 892         | 2 091         |
| Maitland                          | 520           | 595           |
| Kensington                        | 1 442         | 1 729         |
| Langa                             | 538           | 711           |
| Guguletu 1                        | 2 934         | 3 046         |
| Bokmakierie                       | 1 720         | 2 024         |
| Silvertown                        | 1 822         | 1 995         |
| Bonteheuwel                       | 2 057         | 2 400         |
| Heideveld                         | 1 162         | 1 488         |
| Manenberg                         | 1 867         | 2 123         |
| Hanover Park                      | 1 193         | 1 568         |
| Claremont ( <i>Station Road</i> ) | 737           | 932           |
| Lansdowne                         | 1 438         | 1 585         |
| Wynberg                           | 2 215         | 2 467         |
| Parkwood                          | 648           | 735           |
| 11th Avenue, Retreat              | 2 506         | 2 937         |
| Factories ( <i>Misc.</i> )        |               | 1 541         |
| <b>TOTALS</b>                     | <b>26 841</b> | <b>32 240</b> |



Personal Advice in a Family Planning Clinic



## NOTIFICATION OF BIRTHS

The regulations regarding Early Notification of Births (*made by the Minister of Health in 1920*) require notification of all births in the municipality to the Medical Officer of Health within twenty-four hours of their occurrence. This information is invaluable to the department for the follow up of all new births.

In addition births must also under the relevant section of the Births, Marriages and Deaths Registration Act, as amended, be registered with the Registrar of Births and Deaths at any time within seven days of occurrence by the father of the child or, failing him, some other responsible person present at the time of birth.

During the year, 25 573 births and 458 stillbirths were notified (*including births to mothers who were not Cape Town residents*) as follows:

|  |        |
|--|--------|
| Notified by midwives and nurses ( <i>other than extern or intern institutional cases</i> ) ..... | 6 951  |
| Notified by doctors .....  | 14     |
| Notified by institutions ( <i>extern or intern</i> ) ....  | 19 066 |

There were 676 births notified in Langa Bantu Township and 3 082 in Guguletu Bantu Township.

The births and still births notified as having taken place in the municipality during the year are further classified hereunder:

| Attended                                      | Births        | Percentage  |
|---|---------------|-------------|
| (a) In private houses:                        |               |             |
| By private doctors                            | 14            | 0,1         |
| By private midwives                           |               |             |
| Certificated                                  | 5 545         | 21,3        |
| Uncertificated                                | 211           | 0,8         |
| By institutional midwives or student midwives | 1 189         | 4,6         |
| No doctor or midwife                          | <u>6</u>      | <u>0,0</u>  |
|   | <u>6 965</u>  | <u>26,8</u> |
| (b) In institutions:                          |               |             |
| Public institutions                           | 14 767        | 56,7        |
| Private Nursing homes                         | 4 299         | 16,5        |
|   | <u>19 066</u> | <u>73,2</u> |

3 600 of these births were to non-residents of Cape Town.

Public domiciliary midwifery is carried out from the Peninsula Maternity Hospital, Somerset Hospital and St. Monica's Home, all institutions which are recognised as training schools for midwives and by the Provincial Administrations Hospitals district midwives.

## PUERPERAL FEVER

Reported cases of this notifiable disease are investigated by the Maternal and Child Welfare Branch and are admitted to the City Infectious Diseases Hospital where necessary.

One non-White died in a general hospital the day following admission. She had given birth to a premature infant and eight days later had been satisfactorily discharged by the midwife with no apparent disease. The death certificate stated death was due to puerperal sepsis, septicaemia and emboli to brain.

## OPHTHALMIA

For the purpose of notification, ophthalmia neonatorum is defined as a purulent inflammation of the eyes of an infant occurring within twenty-one days of birth, whether it be due to infection with the gonococcus or not.

Cases of inflammation of the eyes beginning after the twenty-first day of life are not regarded as ophthalmia neonatorum, but if due to gonococcal infection are notifiable as gonorrhoeal ophthalmia.

36 cases (*all non-White*) of ophthalmia neonatorum were notified. With the exception of those cases where contact was lost through transfer of domicile, all cases were known to have recovered.

## DIPHTHERIA, WHOOPING COUGH AND TETANUS IMMUNISATION

Two immunising teams, each consisting of a medical officer, health visitor and an assistant conducted 10 immunising sessions per week throughout the year at clinics, institutions and schools. A post-card is sent to all parents whose infants have reached the age of  $3\frac{1}{2}$  months indicating the seriousness of diphtheria and advising immunisation by a private doctor or by the staff of the nearest clinic.

At the Department's sessions the triple antigen of diphtheria, whooping cough and tetanus toxoid is used. A booster injection against the selfsame diseases is given one year after the initial course to all infants and further injections against diphtheria and tetanus to school entrants.

The work done at the municipal sessions during the year is shown by the following figures:-

Number of sessions:

|                                |            |
|--------------------------------|------------|
| At schools .....               | 98         |
| At institutions .....          | 60         |
| At child welfare centres ..... | <u>773</u> |
|                                | <u>931</u> |

Attendances at these sessions are shown in the following table. The shortfall in first attendances of Whites compared with the number of births during the year is regrettable, but many immunisations in this group are carried out by private medical practitioners and there is no official record. In the non-White group, first attendances were 93 per cent of the births notified direct to the department.

| AGE GROUP    |               |               |               |              |              |              |               |            |            |            |               |               |
|--------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|------------|------------|------------|---------------|---------------|
|              | 0-1           |               |               | 1-6          |              |              |               | School age |            |            |               |               |
|              | 1st           | 2nd           | 3rd           | 1st          | 2nd          | 3rd          | Booster       | 1st        | 2nd        | 3rd        | Booster       | TOTAL         |
| White        | 3 089         | 2 995         | 2 934         | 140          | 176          | 198          | 2 255         | 16         | 5          | 15         | 2 615         | 14 438        |
| Non-W        | 17 010        | 15 420        | 14 101        | 1 837        | 2 213        | 2 479        | 11 532        | 186        | 105        | 108        | 18 119        | 83 110        |
| <b>TOTAL</b> | <b>20 099</b> | <b>17 415</b> | <b>17 035</b> | <b>1 977</b> | <b>2 389</b> | <b>2 677</b> | <b>13 787</b> | <b>202</b> | <b>110</b> | <b>123</b> | <b>20 734</b> | <b>97 548</b> |

| RACE         | Material Used |               |               |          |               |            |
|--------------|---------------|---------------|---------------|----------|---------------|------------|
|              | Diph.         | D/WC/T.       | D/TET.        | A.D.F.   | Smallpox      | TET.       |
| White        | 17            | 11 073        | 3 341         | 3        | 3 255         | 4          |
| Non-White    | 227           | 56 537        | 25 623        | 1        | 18 356        | 722        |
| <b>TOTAL</b> | <b>244</b>    | <b>67 610</b> | <b>28 964</b> | <b>4</b> | <b>21 611</b> | <b>726</b> |

#### POLIOMYELITIS IMMUNISATION

Immunisation against poliomyelitis is compulsory throughout the Republic. Since the mass oral live attenuated (*Sabin*) polio immunisation campaign held in 1961, the distribution of polio vaccine has been continued for all new babies from the age of 3 to 4 months and immigrants and children who have not previously been done. Free immunisation is available at special sessions held weekly in two centres and at all sessions where diphtheria, whooping cough and tetanus immunisation is performed.

The number of municipal immunisation sessions held during the year is shown by the following figures:-

|                                |     |
|--------------------------------|-----|
| At schools .....               | 51  |
| At institutions .....          | 53  |
| At child welfare centres ..... | 771 |
|                                | 875 |

|                                   | 0-1 year |        | 1-4 years |       | Other ages |        | Total |        |
|-----------------------------------|----------|--------|-----------|-------|------------|--------|-------|--------|
|                                   | White    | Non-W  | White     | Non-W | White      | Non-W  | White | Non-W  |
| First dose                        | 3 500    | 16 988 | 117       | 1 268 | 324        | 502    | 3 941 | 18 758 |
| Second dose                       | 3 551    | 16 044 | 113       | 1 192 | 215        | 339    | 3 879 | 17 575 |
| Completed course<br>(three doses) | 3 495    | 15 030 | 120       | 1 198 | 165        | 334    | 3 780 | 16 562 |
| Booster after 3 doses             | 566      | 1 625  | 146       | 556   | 1 276      | 11 577 | 1 988 | 13 758 |

#### B. C. G. VACCINATION

B. C. G. vaccination of newborn infants has continued. The material used is freeze dried B.C.G. supplied by the State Health Service. Infants born in the Provincial Hospitals and in St. Monica's home are immunised by the medical staff of those institutions. In the case of infants born on the district, the health visitor at her first visit invites the mother to bring her baby to the local welfare centre where vaccination is done as soon after birth as possible.

Number of B.C.G. vaccinations:-

|                                 | White | Non-White | Total  |
|---------------------------------|-------|-----------|--------|
| Groote Schuur Hospital          |       | 2 584     | 2 584  |
| Mowbray Maternity Hospital      | 3 609 |           | 3 609  |
| Peninsula Maternity Hospital    |       | 4 433     | 4 433  |
| Somerset Hospital               |       | 1 939     | 1 939  |
| St. Monica's Home               |       | 1 432     | 1 432  |
| Municipal child welfare centres | 1 969 | 9 925     | 11 894 |
| Schools and pre-school children | 17    | 48        | 65     |
|                                 | 5 595 | 20 361    | 25 956 |

#### SMALLPOX VACCINATION

This is now carried out at Child Welfare Clinics. During the year under review 21 611 (3 255 White and 18 356 non-White) persons were vaccinated.

## BIRTHS TO TEENAGE MOTHERS FOR THE YEAR 1973

## AGE OF MOTHER

|           | 13 years |       | 14 years |       | 15 years |       | 16 years |       | 17 years |       | 18 years |       | 19 years |       | Total |       |
|-----------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|-------|-------|
| RACE      | LEG      | Illeg | LEG   | Illeg |
| White     |          | 1     | 1        | 1     | 4        | 10    | 14       | 25    | 55       | 33    | 79       | 52    | 109      | 44    | 262   | 166   |
| Coloured  |          | 2     |          | 11    | 13       | 62    | 34       | 151   | 95       | 392   | 188      | 462   | 317      | 529   | 647   | 1 609 |
| Bantu     |          |       |          | 12    | 2        | 41    |          | 79    | 10       | 141   | 24       | 158   | 48       | 162   | 84    | 593   |
| Asiatic   |          |       |          |       |          |       | 1        |       |          |       | 5        |       | 16       | 1     | 22    | 1     |
| All Races |          | 3     | 1        | 24    | 19       | 113   | 49       | 255   | 160      | 566   | 296      | 672   | 490      | 736   | 1 015 | 2 369 |

LEG: Legitimate.

Illeg: Illegitimate.

Of the total number of births to teenage mothers 70 per cent were recorded as illegitimate.

## SUPERVISION OF MIDWIVES

The supervision of all persons, other than medical practitioners, practising midwifery in the municipal area is undertaken by this Branch in accordance with the regulations made under Section 18 (b) of the Public Health (Amendment) Act. no. 15 of 1928.

The various groups of midwives practising in the municipal area consist of the following:—

- (1) 57 private midwives of whom 54 are trained. The 3 untrained midwives have been registered by the S.A. Nursing Council. No further untrained midwives will be permitted to start practice.
- (2) 33 Provincial district midwives working in the Athlone, Bonteheuwel, Langa, Guguletu, Lansdowne and Retreat areas, where there is much poverty.
- (3) Midwives attached to the training schools doing district work in the vicinity of the training schools and in the districts of Kensington, Claremont, Lansdowne, Manenberg and Heideveld.

In approved indigent cases delivered on district, private midwives are paid by the department for services rendered in those areas not served by the provincial district midwives or midwives from the training schools.

## ASSISTED MIDWIFERY

An amount of R336,00 was paid to private midwives during the year. Fees paid to medical practitioners called in by midwives to indigent cases with obstetrical emergencies amounted to R60,50.

## INSPECTIONS

Regular meetings for private midwives are held at the various centres every quarter, at which talks on midwifery are given by the departmental medical officers, and inspections of the midwife's records and equipment are carried out by the supervisor of midwives. At these sessions the opportunity is taken of encouraging the midwives to discuss their problems with the doctors. In addition, regular visits are paid by the supervisor to the homes of the midwives.

The extent of the supervisor's work is indicated by the following figures:—

|   |       |
|---|-------|
| Midwives interviewed at office .....            | 62    |
| Visits paid to midwives in their own home ..... | 456   |
| Inspections held .....                          | 20    |
| Attendances of midwives at inspections .....    | 203   |
| Total visits by supervisor .....                | 2 569 |

## SCHOOL CLINICS

After rendering a school clinic service for over 40 years on behalf of the Provincial Administration and latterly of the Department of Coloured Affairs, the stage had been reached where the service provided was so far short of what was needed that the obvious answer lay in referral of cases to recently formed Day Hospitals with their large strategically placed out-patient service. As a result the medical aspect of the service was discontinued as from the 1 May 1973.

The ophthalmic sessions for both White and non-White groups have continued as in the past, with specialists in attendance, and are held four times per week at Salt River and twice per week at Bokmakierie. A third clinic was commenced at Bokmakierie early in November.

A health visitor and a clinic nurse are employed in this work.

The work done during the year is shown in the table on page 29 and is further analysed in the following figures:—

|                                  | Ophthalmic school clinic |           |       | General school clinic |           |       |
|----------------------------------|--------------------------|-----------|-------|-----------------------|-----------|-------|
|                                  | White                    | Non-White | Total | White                 | Non-White | Total |
| Number of new cases              | 98                       | 1 967     | 2 065 |                       | 884       | 884   |
| Total attendances                | 578                      | 8 864     | 9 442 |                       | 4 035     | 4 035 |
| Number of sessions held          | 21                       | 267       | 288   |                       | 84        | 84    |
| Children fitted with spectacles: |                          |           |       |                       |           |       |
| Part paying                      | 184                      | 1 875     | 2 059 |                       |           |       |
| Free                             | 127                      | 1 496     | 1 623 |                       |           |       |
|                                  | 57                       | 379       | 436   |                       |           |       |

Monies contributed by part paying children towards the cost of spectacles amounted to R411,40.

## CHIROPODY SERVICE

This service was discontinued on 30 June on the resignation of the qualified chiropodist.

## BEHAVIOUR ADVISORY CLINICS

Four clinics held each week at Salt River, Silvertown, Claremont and Heathfield were started in July, 1969 and cater for pre-school children with behaviour problems.

## ATTENDANCES

|                   |       |    |           |     |       |     |
|-------------------|-------|----|-----------|-----|-------|-----|
| 1st Attendances   | White | 5  | Non-White | 96  | TOTAL | 101 |
| Total Attendances | White | 84 | Non-White | 462 | TOTAL | 546 |

The figures are for the period January to March after which the service was also discontinued, due to the resignation of the medical officer conducting these clinics.

## DAY NURSERIES AND NURSERY SCHOOLS

The employment of married women in factories, domestic work and other spheres of labour has become a necessity for many families, who could not otherwise maintain a reasonable standard of living.

Many of the infants of working mothers are cared for by foster mothers. Although the care given is often good, in some cases it leaves much to be desired.

Nurseries and nursery schools are therefore an essential health measure for the underprivileged child providing, as they do, proper care in hygienic surroundings, in addition to establishing constructive social and educational backgrounds. Six nursery schools, 3 with creche attached, a nursery school and creche at Langa and 2 nursery schools and creches at Guguletu are maintained by the branch and are supervised by a senior White nursery school teacher.

All private nursery schools and creches must be registered by the State Department of Social Welfare, and with a view to assisting this body, municipal health personnel visit them reporting on the suitability or otherwise of the premises in question.

The attendances at the municipal nurseries and nursery schools during the year are shown in the following table:-

|                | Sessions | New entrants | Av. total on register | Av. attend per session | Total attend. |
|----------------|----------|--------------|-----------------------|------------------------|---------------|
| Bokmakierie    | 211      | 38           | 80                    | 53                     | 11 369        |
| Retreat        | 209      | 34           | 80                    | 54                     | 11 385        |
| Bloemhof       | 209      | 25           | 42                    | 41                     | 8 465         |
| Shelley St.    | 209      | 29           | 50                    | 45                     | 9 496         |
| Liberman       | 209      | 30           | 36                    | 31                     | 6 493         |
| Langa          | 241      | 32           | 80                    | 54                     | 13 014        |
| Guguletu Ny 6  | 241      | 20           | 80                    | 56                     | 13 481        |
| Guguletu Ny 50 | 241      | 22           | 80                    | 53                     | 12 882        |
| Bonteheuwel    | 209      | 32           | 80                    | 54                     | 11 204        |

All those nursery schools registered for 80 children, cater for 60 children aged 2-6 years and 20 children from 3 months to 2 years.

The nursery for infants of tuberculous non-White women in a cottage in the housing scheme in Kewtown was closed during the year. Arrangements have now been made for these children to be nursed at the City Hospital for infectious diseases where a special nursery has been set up. Non infectious mothers can thus nurse their own children.

#### PROTECTED INFANTS

Children under 7 years of age who are maintained apart from their parents or close relatives and are living with foster parents have by law to be registered by the foster mother with the Commissioner for Child Welfare of the district. Infant protection visitors who visit and report on these children are appointed by the Commissioner.

In Cape Town the health visitors of the Child Welfare Branch have been nominated to act as infant protection visitors.

The practice of placing children with foster mothers particularly amongst non-Whites is very common in Cape Town. Many of these foster mothers diligently care for their wards but difficulties do rise when payments tend to become irregular or cease altogether owing to the fact that the parents, being unmarried, frequently disappear.

All social problems which might affect the welfare of the young child are brought to light by the health visitor at her periodic visits. Should a foster mother prove unsuitable, the Commissioner for Child Welfare is informed so that arrangements may be made for the removal of the child to some more suitable person.

The number of protected infants registered in the year was as follows:-

|                                      |     |
|--------------------------------------|-----|
| Cape Town Magisterial district ..... | 49  |
| Wynberg Magisterial district .....   | 104 |

#### SOCIAL WELFARE WORK

One social welfare worker is attached to the Branch, with a view to safeguarding the interests of unmarried mothers and their infants. She is available for interviews each morning and in the afternoons visits private homes, institutions and maternity homes in connection with cases.

Many requests for advice and help from expectant mothers and mothers of small children, are in connection with non-support from fathers and reputed fathers. Many of these are for various reasons loath to report to the non-support officer.

As required under the Immorality Act 1957, all cases of unmarried mothers under the age of 16 years are fully investigated. During 1973, 530 cases (39 White, 316 Coloured and 175 Bantu) were so investigated.

The social welfare investigator visits rescue homes in an advisory capacity and reports to the health visitors when the mothers and babies leave such institutions. A total of 6 677 visits and 87 interviews were made during the year.

Close contact and co-operation is maintained with Societies such as the Society for the Protection of Child Life, Afrikaanse Christelike Vrouens Vereniging, Mental Health Society, Social Welfare Department and non-support officers.

## HEALTH EDUCATION

B. CROWHURST, B.A.(S.S.), DIP. H. ED.(LONDON), M.R.S.H., HEALTH EDUCATION OFFICER.

### INTRODUCTION

The basic aim of health education is to assist people to achieve health through their own actions and efforts. This involves not only imparting the necessary knowledge for healthful living, but motivating people to act upon this knowledge, both for their own health betterment as individuals and as members of families and communities.

In order to attain the above objectives, it is imperative that not only should the health information to be imparted be presented in a logical and stimulating manner, but that, through a process of deductive reasoning, the individual be motivated to act upon it. This implies a basic change in attitude towards health problems which can best be achieved through meaningful health instruction, backed up by the use of effective visual aids.

### VISUAL AIDS

Unlike his counterpart in Britain, where people share a common language and culture, the health educator in this country has to cater for a variety of ethnic groups, each with their own differing customs, taboos, and beliefs. Thus, when it comes to the provision of suitable visual aid media to support lectures, it is necessary to ensure that the material caters specifically for the needs of each racial group. For example, a film on the subject of family planning produced for use with Bantu audiences and incorporation a Xhosa soundtrack, is quite unsuitable for use with local Coloured audiences, and vice versa.

Thus, in building up the Department's stock of visual aids which consist in the main of 16mm. films, 35mm. slides and flannelgraphs, emphasis has been placed on acquiring locally produced material. Unfortunately, although there is a dearth of suitable public health films, on the subjects of nutrition, family planning, and tuberculosis, some excellent locally produced films have been obtained.

As the flannelgraph has proved to be one of the cheapest and most effective types of visual aid, all major child welfare clinics have been provided with these for use by the nursing staff. The flannelgraphs, which cover most subjects of public health importance, were produced by the health education section and have been duplicated as required. Subject-matter covered by these flannelgraphs includes family planning, cervical cytology, sex education, nutrition, tuberculosis, food hygiene, care of babies' feeding bottles, general hygiene, and accident prevention in the home.

### IN-SERVICE TRAINING OF STAFF

The in-service training of health staff in the principles, methods and techniques of health education, forms an important aspect of the Health Education Officer's work, and was again undertaken throughout the year. This work involves, in addition to instruction given to nursing staff and health inspectors of the Department, lectures to medical students and nursing staff in the employ of the provincial hospitals. Most of these lectures, with emphasis on family planning, take place at the new Family Planning Training Centre at Heideveld administered by this Department. Weekly lectures, film shows and discussion groups, are held for a wide variety of both professional and lay personnel.

### CHILD WELFARE CLINICS

Lectures and group discussions, supported by films and other visual aids, were given throughout the year at all major child welfare and tuberculosis clinics catering mainly for the non-White communities. The lectures are given by the Health Education Officer, Health Visitors, and the two non-White Health Education Lecturers, and include such subjects as infant care and feeding, family planning, and immunisation.

### HOSPITALS

At the following hospitals, viz: Peninsula Maternity, Somerset, Red Cross, Klipfontein, Langa and Guguletu Day Hospitals, Valkenberg, City and Brooklyn Chest Hospitals, lectures covering a variety of health subjects including tuberculosis, nutrition, cervical cytology, and family planning, were given. The lectures were well received by both patients and staff, and attendance was good.

### SCHOOLS

A programme of lectures and film shows which was arranged for both Government and private schools, again proved popular. Lectures were given at 34 schools catering for all racial groups, and many requests were received for a full series of lectures on health subjects, throughout the school term.

*INDUSTRIAL PREMISES*

Lunch-hour lecture programs were arranged with the management of several factories and food-handling establishments, and lectures and film shows on a variety of health subjects, including family planning, were given for employees of all races.

*GENERAL*

Assistance with health educational lectures and visual aids was given to various voluntary organisations in Cape Town, including SHAWCO, Cafda, Red Cross, and the Family Planning Association of the Western Cape, of which latter organisation the Health Education Officer is a committee member.

By arrangement with His Worship the Mayor, a lunch-hour talk on the activities of the Health Department, illustrated by 35mm. slides, was given for the Citizens' Forum. The purpose of this and similar talks given by other Municipal Departments, was to inform members of the public of the numerous and varied activities undertaken by the City Council.

Several lectures and demonstrations on principles of health education were given for the 4th and 5th year medical students, student nurses at the Carinus Nursing College, midwives in private practice, and for student public health nurses and health inspectors at the Technical College.

A new Bell & Howell film projector was purchased at the beginning of the year for use in the non-White areas, and eight new films of health educational value were also purchased.

The following statistics reflect the health education lectures given by the health education and nursing staff during the year. These figures do not include the health educational advice and assistance given to individuals by doctors, nursing staff and health inspectors, which aspect also constitutes an important facet of the health educational services of the Department.

**STATISTICS FOR 1973**

40.

**REPORT OF THE MEDICAL OFFICER OF HEALTH**

| VENUES                      | SUBJECTS  | RACIAL GROUPS              | TYPE OF AUDIENCE  | MEDIA UTILISED   | NO. OF LECTURES  | ATTENDANCES             |
|-----------------------------|---|----------------------------|---|--|------------------|-------------------------|
| Child Welfare Clinics       | Nutrition, family planning, cervical cytology, tuberculosis, food-borne disease, infant care and feeding, immunisation, general and personal hygiene, accident prevention, care of feeding bottles and teats, physiology of labour. | White<br>Coloured<br>Bantu | Mothers<br>Mothers<br>Mothers   | films, film-strips, 35mm.<br>slides, flannelgraphs and<br>flip-charts. | 16<br>905<br>210 | 350<br>62 000<br>9 042  |
| Tuberculosis                | Tuberculosis, nutrition, family planning  | Coloured<br>Bantu          | T.B. Out-patients   | Films, flannelgraphs   | 34<br>85         | 12 000<br>6 200         |
| Hospitals                   | Nutrition, family planning, tuberculosis, mouth to mouth resuscitation  | Coloured<br>Bantu          | Nursing staff, patients in wards, out-patients                                      | Films  | 37<br>12         | 2 800<br>1 250          |
| Community Centres and Clubs | Venereal diseases, T.B., smoking and lung cancer, drugs, mouth to mouth resuscitation.  | White<br>Coloured<br>Bantu | Adult females<br>Adults and teenagers<br>Adults and teenagers                       | Films, flannelgraphs, slides   | 12<br>22<br>28   | 600<br>2 500<br>1 800   |
| Voluntary Organisations     | Family planning, nutrition, venereal diseases   | Coloured<br>Bantu          | Adult male and females<br>Adult male and females                                    | Films, slides, flannelgraphs and flip-charts.                          | 18<br>22         | 1 050<br>3 040          |
| Food Premises               | Food hygiene, personal hygiene, elementary bacteriology.  | White<br>Coloured<br>Bantu | Employees engaged in food preparation and handling                                  | Films, filmstrips, flannelgraphs.                                      | 8<br>21          | 160<br>412              |
| U.C.T. Medical School       | Principles and techniques of health education.  | White                      | Medical students  | Flannelgraphs  | 6                | 300                     |
| Technical Colleges          | Principles and techniques of health education   | White                      | Trainee public health nurses and public health inspectors                           | Films, flannelgraphs and slides.                                       | 5                | 78                      |
| Nurses Training College     | Health education and public health  | Coloured                   | Trainee nurses  | Slides   | 2                | 100                     |
| Schools                     | Pollution, drugs, smoking and health, mouth to mouth resuscitation, dental hygiene and sex education.   | White<br>Coloured<br>Bantu | Scholars at both primary and secondary level  | Films, flannelgraphs, slides.  | 26<br>22<br>24   | 6 400<br>5 000<br>8 500 |
| Factories                   | Family planning, sex education, venereal diseases, tuberculosis, nutrition, mouth to mouth resuscitation.   | White<br>Coloured<br>Bantu | Male and female employees<br>Male and female employees<br>Male and female employees | Films and flannelgraphs.   | 10               | 2 500                   |

**SECTION IV – DENTAL BRANCH**

DR. V.R. TAYLOR – CHIEF DENTAL OFFICER

The year under review shows much the same pattern as the previous two years with a gratifying substantial increase in attendances for conservative dentistry. The denture output was satisfactory, amounting to 1 137 full and 97 partial dentures and mention must be made of the commendable effort of the orthodontic section when 85 appliances were inserted and attendances amounted to 554. Only one specialist orthodontist renders this service in three two hour sessions per week.

Dental caries, the most prevalent oral disease is undoubtedly associated with the dietary habits of the population. The standard of oral hygiene of patients attending the departmental clinics is very low and only intensive dental health education of the younger school-going children, particularly regarding diet and the use of the toothbrush, is likely to produce any long term benefit. The regulation of the fluoride content of public drinking water to contain 0,8 up to a maximum of one part per million is the most safe and effective way of preventing dental decay. This latter method together with education is the only way to ensure that the community possesses sound healthy teeth and surrounding tissue.

The Branch is responsible for the dental care of the teeth of indigent persons resident in the Cape Town Municipal area. Treatment centres are maintained at Hope Street, Salt River, Maitland, Lansdowne, Silvertown, Wynberg, Retreat, Langa and Guguletu. Services are also rendered by this branch to the Brooklyn Chest, City and Dr. Stals Hospitals.

The revenue collected at the various clinics during the year amounted to R33 265,60.

The full establishment of the branch as at 31 December, 1973 was as follows:—

|                          |
|--------------------------|
| Chief Dental Officer     |
| Deputy Dental Officer    |
| Assistant Dental Officer |
| 1 Senior Dental Mechanic |
| 1 Senior Dental Nurse    |
| 4 Dental Mechanics       |
| 7 Dental Nurses          |
| 5 Clinic Assistants      |
| 1 Social Worker          |
| 4 Clerical Staff         |
| 4 Laundresses            |
| 1 Labourer               |
| 1 Domestic               |

The above staff are assisted by 12 part-time dental surgeons, 6 anaesthetists, a specialist orthodontist and dental nurses. The attendances at the dental sessions over the year at all centres are shown in the following table.

## DENTAL BRANCH 1973

| Centre                |                                | Ses-sions    | Attendances  |               |              |               | Extractions<br>(Persons) |               | Fillings<br>(Persons) |              | Examinations<br>and other dental<br>treatment |               | Dentures Supplied |           |            |           |    |
|-----------------------|--------------------------------|--------------|--------------|---------------|--------------|---------------|--------------------------|---------------|-----------------------|--------------|---|---------------|-------------------|-----------|------------|-----------|----|
|                       |                                |              | New          |               | Total        |               |                          |               |                       |              |   |               | W                 | Partial   | Full       | Partial   |    |
|                       |                                |              |              | W             | N-W          | W             | N-W                      |               |                       |              |   |               |                   |           |            |           |    |
| Hope St.              | General: Adults                | 1 642        | 1 070        | 7 412         | 3 045        | 17 250        | 366                      | 4 779         | 407                   | 361          | 2 331   | 12 191        | 168               | 34        | 926        | 53        |    |
|                       | Children                       |              | 1 068        | 2 244         | 2 516        | 3 891         | 565                      | 1 520         | 325                   | 62           | 1 627   | 2 316         | 2                 | 6         |            |           |    |
|                       | Nursing and expect-ant mothers | 51           | 2            | 27            | 6            | 54            | 6                        | 53            |                       |              |   | 1             |                   |           |            |           |    |
|                       | Pre school children            |              | 19           | 283           | 43           | 599           | 38                       | 570           |                       |              | 5   | 30            |                   |           |            |           |    |
| Maitland              | School children                | 648          | 107          | 1 165         | 992          | 4 210         | 162                      | 2 389         | 704                   | 1 122        | 159   | 770           |                   |           |            |           |    |
|                       | <b>TOTAL</b>                   | <b>2 341</b> | <b>2 266</b> | <b>11 131</b> | <b>6 602</b> | <b>26 004</b> | <b>1 137</b>             | <b>9 311</b>  | <b>1 436</b>          | <b>1 545</b> | <b>4 122</b>                                  | <b>15 308</b> |                   |           |            |           |    |
|                       | General: Adults                | 102          | 50           | 597           | 72           | 925           | 26                       | 338           |                       |              | 46  | 587           |                   |           |            |           |    |
|                       | Children                       |              | 87           | 430           | 133          | 713           | 56                       | 316           |                       |              | 77  | 397           |                   |           |            |           |    |
| Silvertown            | Nursing and expect-ant mothers | 52           | 2            | 94            | 4            | 125           | 4                        | 122           |                       |              |   | 3             |                   |           |            |           |    |
|                       | Pre school children            |              | 13           | 497           | 16           | 618           | 16                       | 596           |                       |              |   | 22            |                   |           |            |           |    |
|                       | School children                | 131          | 152          | 2 477         |              | 2 924         |                          | 2 326         |                       |              |   | 598           |                   |           |            |           |    |
|                       | <b>TOTAL</b>                   | <b>285</b>   | <b>304</b>   | <b>4 095</b>  | <b>225</b>   | <b>5 305</b>  | <b>102</b>               | <b>3 698</b>  |                       |              | <b>123</b>                                    | <b>1 607</b>  |                   |           |            |           |    |
| Wynberg               | General: Adults                | 145          |              | 1 007         |              | 1 695         |                          | 708           |                       |              |   | 987           |                   |           |            |           |    |
|                       | Children                       |              |              | 1 019         |              | 1 749         |                          | 741           |                       |              |   | 1 008         |                   |           |            |           |    |
|                       | Nursing and expect-ant mothers | 200          |              | 544           |              | 636           |                          | 586           |                       |              |   | 50            |                   |           |            |           |    |
|                       | Pre school children            |              |              | 1 600         |              | 1 946         |                          | 1 809         |                       |              |   | 137           |                   |           |            |           |    |
| Retreat               | School children                | 425          |              | 6 717         |              | 7 828         |                          | 6 307         |                       |              |   | 1 362         |                   |           |            |           |    |
|                       | <b>TOTAL</b>                   | <b>770</b>   |              | <b>10 887</b> |              | <b>13 854</b> |                          | <b>10 151</b> |                       |              | <b>293</b>                                    |               | <b>3 544</b>      |           |            |           |    |
|                       | Nursing and expect-ant mothers | 50           | 4            | 157           | 4            | 198           | 4                        | 188           |                       |              |   | 10            |                   |           |            |           |    |
|                       | Pre school children            |              | 2            | 315           | 3            | 393           | 3                        | 361           |                       |              |   | 32            |                   |           |            |           |    |
| Lansdowne             | School children                | 188          | 5            | 1 823         | 84           | 2 360         | 6                        | 1 612         | 79                    | 243          | 2   | 511           |                   |           |            |           |    |
|                       | <b>TOTAL</b>                   | <b>238</b>   | <b>11</b>    | <b>2 295</b>  | <b>91</b>    | <b>2 951</b>  | <b>13</b>                | <b>2 161</b>  | <b>79</b>             | <b>243</b>   | <b>2</b>                                      | <b>553</b>    |                   |           |            |           |    |
|                       | General: Adults                | 100          |              | 850           |              | 1 395         |                          | 512           |                       |              |   | 883           |                   |           |            |           |    |
|                       | Children                       |              |              | 508           | 1            | 740           | 1                        | 225           |                       |              |   | 515           |                   |           |            |           |    |
| Langa                 | Nursing and expect-ant mothers | 100          |              | 343           |              | 555           |                          | 506           |                       |              |   | 50            |                   |           |            |           |    |
|                       | Pre school children            |              |              | 532           |              | 781           |                          | 717           |                       |              |   | 64            |                   |           |            |           |    |
|                       | School children                | 128          |              | 2 505         |              | 2 786         |                          | 2 150         |                       |              |   | 636           |                   |           |            |           |    |
|                       | <b>TOTAL</b>                   | <b>328</b>   |              | <b>4 738</b>  | <b>1</b>     | <b>6 257</b>  | <b>1</b>                 | <b>4 110</b>  |                       |              |   | <b>2 148</b>  |                   |           |            |           |    |
| Guguletu              | Nursing and expect-ant mothers | 101          | 2            | 299           | 3            | 355           | 3                        | 325           |                       |              |   | 30            |                   |           |            |           |    |
|                       | Pre school children            |              | 11           | 874           | 12           | 1 094         | 11                       | 996           |                       |              |   | 98            |                   |           |            |           |    |
|                       | School children                | 138          |              | 2 068         |              | 2 468         |                          | 1 937         |                       |              |   | 412           |                   |           |            |           |    |
|                       | <b>TOTAL</b>                   | <b>239</b>   | <b>13</b>    | <b>3 241</b>  | <b>15</b>    | <b>3 917</b>  | <b>14</b>                | <b>3 258</b>  |                       |              | <b>147</b>                                    | <b>1</b>      | <b>540</b>        |           |            |           |    |
| Salt River            | Adults                         | 22           |              | 204           |              | 266           |                          | 259           |                       |              |   | 7             |                   |           |            |           |    |
|                       | Children                       |              |              | 39            |              | 46            |                          | 44            |                       |              |   | 2             |                   |           |            |           |    |
| City Hos-pital        | <b>TOTAL</b>                   | <b>22</b>    |              | <b>243</b>    |              | <b>312</b>    |                          | <b>303</b>    |                       |              |   | <b>9</b>      |                   |           |            |           |    |
|                       | General: Adults                | 149          |              | 1 648         |              | 2 629         |                          | 895           |                       |              |   | 1 734         |                   |           |            |           |    |
| Dr. Stal's Sanatorium | Children                       |              |              | 1 329         |              | 2 178         |                          | 796           |                       |              |   | 1 382         |                   |           |            |           |    |
|                       | Nursing and expect-ant mothers | 44           |              | 197           |              | 377           |                          | 361           |                       |              |   | 16            |                   |           |            |           |    |
|                       | Pre school children            |              |              | 156           |              | 272           |                          | 268           |                       |              |   | 4             |                   |           |            |           |    |
|                       | <b>TOTAL</b>                   | <b>193</b>   |              | <b>3 330</b>  |              | <b>5 456</b>  |                          | <b>2 320</b>  |                       |              |   | <b>3 136</b>  |                   |           |            |           |    |
| Misc. Schools         | T.B. Out Patients:             |              |              | 236           |              | 518           |                          | 253           |                       |              |   | 265           |                   |           |            |           |    |
|                       | Adults                         |              |              | 27            |              | 43            |                          | 37            |                       |              |   | 6             |                   |           |            |           |    |
| Total                 | <b>TOTAL</b>                   | <b>72</b>    |              | <b>263</b>    |              | <b>561</b>    |                          | <b>290</b>    |                       |              |   | <b>271</b>    |                   |           | <b>41</b>  | <b>4</b>  |    |
|                       | In Patients:                   |              |              |               |              |               |                          |               |                       |              |   |               |                   |           |            |           |    |
| Dr. Stal's Sanatorium | Adults                         |              |              | 54            |              | 79            |                          | 25            |                       |              |   | 54            |                   |           |            |           |    |
|                       | Children                       |              |              | 23            |              | 58            |                          | 35            |                       |              |   | 23            |                   |           |            |           |    |
| Misc. Schools         | <b>TOTAL</b>                   | <b>8</b>     |              | <b>77</b>     |              | <b>137</b>    |                          | <b>60</b>     |                       |              |   | <b>77</b>     |                   |           |            |           |    |
|                       | In Patients:                   |              |              |               |              |               |                          |               |                       |              |   |               |                   |           |            |           |    |
| Misc. Schools         | Adults                         |              |              | 48            |              | 56            |                          | 49            |                       |              |   | 7             |                   |           |            |           |    |
|                       | Children                       |              |              | 45            |              | 79            |                          | 79            |                       |              |   | 7             |                   |           |            |           |    |
| Total                 | <b>TOTAL</b>                   | <b>7</b>     |              | <b>93</b>     |              | <b>135</b>    |                          | <b>128</b>    |                       |              |   | <b>7</b>      |                   |           |            |           |    |
|                       | Children                       |              |              | 1             |              | 58            |                          | 58            |                       |              |   | 58            |                   |           |            |           |    |
| Total                 | Adults                         |              |              | 1 130         | 13 717       | 3 134         | 27 113                   | 409           | 9 959                 | 407          | 361   | 2 377         | 16 875            | 168       | 34         | 966       | 57 |
|                       | Children                       |              |              | 1 464         | 26 734       | 3 800         | 37 834                   | 858           | 25 831                | 1 108        | 1 867   | 1 871         | 10 383            | 2         | 6          | 1         |    |
| Total                 | <b>TOTAL</b>                   | <b>4 504</b> | <b>2 594</b> | <b>40 451</b> | <b>6 934</b> | <b>64 947</b> | <b>1 267</b>             | <b>35 790</b> | <b>1 515</b>          | <b>2 228</b> | <b>4 248</b>                                  | <b>27 258</b> | <b>170</b>        | <b>40</b> | <b>967</b> | <b>57</b> |    |

## SECTION V – INFECTIOUS AND OTHER DISEASES

The cases of compulsory notifiable diseases reported in the Municipality of Cape Town during the year are shown in the tables on pages 106 to 109 classified by race and:

Table N, in months according to date of notification  
 Table O, in age and sex groups  
 Table P, in wards.

Other relevant statistical details of deaths from infectious diseases are contained in Tables A, B and C on pages 91 to 93.

No Cape Town residents were notified as suffering from any of the following notifiable diseases:

Anthrax, Asiatic cholera, erysipelas, glanders, lead poisoning, leprosy, Malaria, Malta fever, plague, rabies, smallpox, Trachoma, trypanosomiasis, and yellow fever.

### DISTRIBUTION OF CASES BY RACE

|                              | White      | Coloured   | Bantu      | Asiatic   | Total        |
|------------------------------|------------|------------|------------|-----------|--------------|
| Tuberculosis, pulmonary      | 51         | 655        | 716        | 7         | 1 429        |
| Tuberculosis, other forms    | 3          | 170        | 195        | 1         | 369          |
| Typhoid or enteric fever     |            | 8          | 2          |           | 10           |
| Diphtheria                   | 3          | 2          | 1          |           | 6            |
| Scarlet fever                | 7          | 9          |            |           | 16           |
| Cerebrospinal fever          | 5          | 31         | 6          |           | 42           |
| Acute poliomyelitis          |            | 3          | 1          |           | 4            |
| Viral Hepatitis              | 48         | 56         | 6          | 2         | 112          |
| Puerperal fever              |            | 1          |            |           | 1            |
| Whooping cough               | 3          | 12         | 7          |           | 22           |
| Tetanus                      |            | 2          | 1          |           | 3            |
| Typhus ( <i>Tick Borne</i> ) |            | 1          |            |           | 1            |
| Infectious encephalitis      |            | 2          |            | 1         | 3            |
| Ophthalmia neonatorum        |            | 31         | 5          |           | 36           |
| <b>TOTAL</b>                 | <b>120</b> | <b>983</b> | <b>940</b> | <b>11</b> | <b>2 054</b> |

### TYPHOID OR ENTERIC FEVER

The number of cases reported in the municipal area, corrected for mis-diagnosis and out of city cases, was 10 (all non-White) equivalent to an incidence rate of 0,01 (0,02 for non-Whites) per 1 000 population.

There were no deaths. During the previous year there were 17 cases and no deaths.

Two cases were notified from the same address in Ward 8. Eight cases were treated in the City Hospital for Infectious Diseases and 2 cases in general hospitals.

In addition to the above, 28 cases (1 White and 27 non-Whites) were admitted to the City Hospital from outside areas.

### DIPHTHERIA

Diphtheria cases reported during the year, corrected for mis-diagnosis and out of city cases, numbered 6 (3 Whites and 3 non-Whites) equivalent to an incidence rate of 0,01 (0,01 Whites and 0,01 non-Whites) per 1 000 population.

One case had been immunised but the remaining 5 cases had either not been immunised or there was no record of their having been immunised.

There were no deaths. During the previous year there were 5 cases and one death.

Five cases were admitted to the City Hospital but one case was sufficiently recovered after treatment not to require hospitalisation.

In addition to the above, 9 cases (1 White and 8 non-White) from outside the municipal area were admitted, 8 to the City Hospital and one to a general hospital. Two of these patients died.

### CARRIERS

Three carriers were notified and admitted to hospital for observation and treatment, together with a further 3 from outside areas.

Details of the Department's work in immunisation against diphtheria is given in the following table and also on page 33.

| YEAR | Number of Notifications |           |           | Persons Immunised |           |           |
|------|-------------------------|-----------|-----------|-------------------|-----------|-----------|
|      | White                   | Non-White | All Races | White             | Non-White | All Races |
| 1969 |                         | 11        | 11        | 8 151             | 34 931    | 43 082    |
| 1970 | 1                       | 3         | 4         | 7 072             | 33 478    | 40 550    |
| 1971 |                         | 6         | 6         | 8 128             | 37 260    | 45 388    |
| 1972 |                         | 5         | 5         | 8 565             | 46 998    | 55 563    |
| 1973 | 3                       | 3         | 6         | 8 017             | 46 339    | 54 356    |

### SCARLET FEVER

Cases of this disease reported during the year, corrected for mis-diagnosis and out of city cases, numbered 16 (7 White and 9 non-White) equivalent to an incidence rate of 0,02 (0,03 White and 0,02 non-White) per 1 000 population.

There were no deaths. In the previous year there were 44 cases (32 White and 12 non-White) and no deaths.

In view of satisfactory isolation facilities 12 cases were nursed at home.

In addition to the above, 3 cases (2 White and 1 non-White) were admitted to the City Hospital from outside the municipal area.

### NOTIFICATIONS, DEATHS, INCIDENCE AND DEATH RATES PER 100 000 POPULATION FOR ENTERIC FEVER, DIPHTHERIA AND SCARLET FEVER.

| YEAR  | Enteric fever |           |        |           | Diphtheria    |           |        |           | Scarlet fever |           |        |           |
|---|---------------|-----------|--------|-----------|---------------|-----------|--------|-----------|---------------|-----------|--------|-----------|
|   | Notifications |           | Deaths |           | Notifications |           | Deaths |           | Notifications |           | Deaths |           |
|   | White         | Non-White | White  | Non-White | White         | Non-White | White  | Non-White | White         | Non-White | White  | Non-White |
| 1969  |               | 4         |        |           | 11            |           | 1      |           | 27            | 9         |        |           |
| 1970  | 1             | 19        |        |           | 1             | 3         |        |           | 19            | 5         |        |           |
| 1971  | 1             | 19        |        |           | 1             | 6         |        |           | 57            | 10        |        |           |
| 1972  | 1             | 16        |        |           | 5             |           | 1(2)   |           | 32            | 12        |        |           |
| 1973  |               | 10        |        |           | 3             | 3         |        |           | 7             | 9         |        |           |
| <b>INCIDENCE AND DEATH RATES<br/>PER 100 000 POPULATION</b> |               |           |        |           |               |           |        |           |               |           |        |           |
| YEAR  | 1969          | 0,9       |        |           | 2,4           |           | 0,2    | 12,6      | 1,9           |           |        |           |
|   | 1970          | 0,4       | 4,0    |           | 0,4           | 0,6       |        | 8,8       | 1,0           |           |        |           |
|   | 1971          | 0,4       | 3,8    |           | 1,2           |           |        | 24,2      | 2,0           |           |        |           |
|   | 1972          | 0,4       | 3,1    |           | 1,0           |           | 0,4    | 13,4      | 2,3           |           |        |           |
|   | 1973          |           | 1,9    |           | 0,6           |           |        | 2,9       | 1,7           |           |        |           |
| <b>AVERAGE</b>  |               |           |        |           |               |           |        |           |               |           |        |           |
|   | 1946 – 1950   | 12,0      | 37,0   | 1,8       | 5,8           | 24,8      | 33,4   | 1,6       | 3,8           | 122,2     | 13,8   | 0,4       |
|   | 1951 – 1955   | 7,4       | 23,9   |           | 1,2           | 17,9      | 19,9   | 0,5       | 1,8           | 96,3      | 13,2   | 0,2       |
|   | 1956 – 1960   | 2,6       | 13,1   |           | 0,2           | 10,1      | 16,0   | 0,8       | 1,0           | 54,0      | 4,8    | 0,1       |
|   | 1961 – 1965   | 0,2       | 3,9    |           | 0,2           | 3,7       | 7,2    | 0,3       | 0,8           | 26,3      | 3,1    |           |
|   | 1966 – 1970   | 0,8       | 3,2    |           | 0,1           | 0,6       | 2,0    |           | 0,1           | 8,8       | 1,8    |           |
|   | 1969 – 1973   | 0,2       | 2,7    |           | 0,0           | 0,3       | 1,2    |           | 0,1           | 12,4      | 1,8    |           |

**CEREBROSPINAL FEVER**

During the year under review 46 cases (5 White and 41 non-White) were notified, equivalent to an incidence rate of 0,06 (0,02 White and 0,08 non-White) per 1 000 population.

42 cases were admitted to the City Hospital and 4 to general hospitals. 5 deaths occurred, (1 White and 4 non-White) one of which was notified through the death returns.

In addition to the above 43 cases from outside the municipal area were admitted to the City Hospital. Four of these cases died.

**ACUTE POLIOMYELITIS**

Four cases (non-White) were treated in the City Hospital, equivalent to an incidence rate of 0,01 (0,01 non-White) per 1 000 population.

There were no deaths. Two cases had been immunised but the remaining two had either not been immunised or there was no record of their being immunised. Two further cases were admitted to the City Hospital but from their case histories had contracted the disease from outside the municipal area.

In addition to the above, 27 cases (all non-White) were admitted to the City Hospital from outside areas.

Information regarding immunisation will be found on page 34.

**INFECTIVE ENCEPHALITIS**

Three cases (all non-White) of this disease, were reported in the year. There were two deaths. A further case (White) from outside the area died in a general hospital.

**NOTIFICATIONS, DEATHS, INCIDENCE AND DEATH RATES PER 100 000 POPULATION FOR CEREBROSPINAL FEVER, ACUTE POLIOMYELITIS AND INFECTIVE ENCEPHALITIS**

|                                  | Cerebrospinal fever |           |        |           | Acute poliomyelitis |           |        |           | Infective encephalitis |           |        |           |
|----------------------------------|---------------------|-----------|--------|-----------|---------------------|-----------|--------|-----------|------------------------|-----------|--------|-----------|
|                                  | Notifications       |           | Deaths |           | Notifications       |           | Deaths |           | Notifications          |           | Deaths |           |
|                                  | White               | Non-White | White  | Non-White | White               | Non-White | White  | Non-White | White                  | Non-White | White  | Non-White |
| <b>YEAR</b>                      | <b>1969</b>         | 8         | 89     |           | 9                   |           | 1      |           |                        | 3         |        | 3         |
|                                  | 1970                | 13        | 48     | 1         | 7                   |           | 3      |           | 2                      | 1         | 2      | 1         |
|                                  | 1971                | 5         | 47     |           | 3                   |           | 2      |           |                        |           |        |           |
|                                  | 1972                | 8         | 50     |           | 6                   | 1         | 10     |           |                        |           |        |           |
|                                  | 1973                | 5         | 41     | 1         | (10)                | 4         |        | 4         |                        | 3         |        | 2         |
| <b>INCIDENCE AND DEATH RATES</b> |                     |           |        |           |                     |           |        |           |                        |           |        |           |
| <b>PER 100 000 POPULATION</b>    |                     |           |        |           |                     |           |        |           |                        |           |        |           |
| <b>YEAR</b>                      | <b>1969</b>         | 3,7       | 19,3   |           | 1,9                 |           | 0,2    |           |                        | 0,6       |        | 0,6       |
|                                  | 1970                | 6,0       | 10,1   | 0,5       | 1,5                 |           | 0,6    |           | 0,9                    | 0,2       | 0,9    | 0,2       |
|                                  | 1971                | 2,1       | 9,4    |           | 0,6                 |           | 0,4    |           |                        |           |        |           |
|                                  | 1972                | 3,3       | 9,7    |           | 1,9                 | 0,4       | 1,9    |           |                        | 0,6       |        | 0,4       |
|                                  | 1973                | 2,1       | 7,8    | 0,4       | 0,8                 |           | 0,8    |           |                        |           |        |           |
| <b>AVERAGE</b>                   |                     |           |        |           |                     |           |        |           |                        |           |        |           |
|                                  | 1946 – 1950         | 6,5       | 21,2   | 1,3       | 4,7                 | 4,6       | 3,9    | 0,3       | 0,2                    | 0,4       | 0,8    | 0,3       |
|                                  | 1951 – 1955         | 6,2       | 19,1   | 0,6       | 3,0                 | 9,2       | 5,0    | 0,9       |                        | 1,2       | 0,9    | 0,4       |
|                                  | 1956 – 1960         | 3,4       | 6,8    | 0,5       | 1,0                 | 16,7      | 23,0   | 1,2       | 1,1                    | 0,7       | 3,0    | 0,3       |
|                                  | 1961 – 1965         | 2,2       | 6,4    | 0,1       | 0,7                 | 0,3       | 2,4    |           |                        | 0,4       | 0,8    | 0,1       |
|                                  | 1966 – 1970         | 6,0       | 31,2   | 0,4       | 3,0                 | 0,3       | 1,6    | 0,1       | 0,0                    | 0,2       | 0,5    | 0,2       |
|                                  | 1969 – 1973         | 3,4       | 11,3   | 0,2       |                     | 0,1       | 0,8    |           |                        | 0,2       | 0,3    | 0,2       |

**VIRAL HEPATITIS**

112 cases (48 White and 64 non-White) were notified, equivalent to an incidence rate of 0,15 (0,20 White and 0,12 non-White) per 1 000 population.

Eight cases were admitted to the City Hospital, 17 to general hospitals and the remainder were nursed at home. There were 6 deaths (1 White and 5 non-White).

In addition, 10 cases (6 White and 4 non-White) from outside areas were admitted to hospital. 6 of these cases died.

| YEAR | Notifications |     | Deaths |      | Incidence rate per 100 000 |      | Death rate per 100 000 |     |
|------|---------------|-----|--------|------|----------------------------|------|------------------------|-----|
|      | W             | N-W | W      | N-W  | W                          | N-W  | W                      | N-W |
| 1970 | 44            | 43  | 1      | 3    | 20,3                       | 9,0  | 0,5                    | 0,6 |
| 1971 | 68            | 107 |        | 2    | 28,9                       | 21,4 |                        | 0,4 |
| 1972 | 80            | 127 | 1(2)   | 1(2) | 33,5                       | 24,7 | 0,8                    | 0,4 |
| 1973 | 48            | 64  | 1      | 5    | 19,8                       | 12,1 | 0,4                    | 0,9 |

**LEPROSY**

Two cases (*both Bantu*) who had contracted the disease from outside the municipal area were admitted to hospital pending their transfer to the Pretoria Leper Institution.

**TETANUS**

One case of tetanus and 2 cases of tetanus neonatorum occurred. Two of these were notified through the death returns.

Two further cases of tetanus neonatorum from outside areas were also notified through the death returns.

**TYPHUS FEVER**

One case of tick borne typhus fever was admitted to the City Hospital and discharged after treatment.

**WHOOPING COUGH**

For the period under review, 22 cases (3 White and 19 non-White) were notified, equivalent to an incidence rate of 0,03 (0,01 White and 0,04 non-White) per 1 000 population.

There were 2 deaths.

In addition 15 cases (2 White and 13 non-White) were admitted to hospital from outside areas. Three of these cases died, one of which was notified through the death returns.

The distribution of the 22 city cases according to month of occurrence, wards and age-groups will be found in Tables N to P on pages 106 to 109. Details of whooping cough immunisation at the municipal centres will be found on page 33.

| PERIOD  | WHOOPING COUGH |           |                                     |           |        |           |                                 |           |
|---------|----------------|-----------|-------------------------------------|-----------|--------|-----------|---------------------------------|-----------|
|         | Notifications  |           | Incidence rate per 1 000 population |           | Deaths |           | Death rate per 1 000 population |           |
|         | White          | Non-White | White                               | Non-White | White  | Non-White | White                           | Non-White |
| YEAR    | 1969           | 6         | 8                                   | 0,03      | 0,02   |           |                                 |           |
|         | 1970           | 7         | 22                                  | 0,03      | 0,05   | 3         |                                 | 0,01      |
|         | 1971           | 15        | 17                                  | 0,06      | 0,03   | 1         |                                 | 0,00      |
|         | 1972           | 9         | 15                                  | 0,04      | 0,03   | 2(3)      |                                 | 0,01      |
|         | 1973           | 3         | 19                                  | 0,01      | 0,04   | 2         |                                 | 0,00      |
| AVERAGE |                |           |                                     |           |        |           |                                 |           |
|         | 1945 - 50      |           |                                     |           |        |           |                                 |           |
|         | 1951 - 55      | 188       | 576                                 | 1,0       | 2,2    | 2         | 42                              | 0,0       |
|         | 1956 - 60      | 48        | 162                                 | 0,3       | 0,5    | 1         | 19                              | 0,0       |
|         | 1961 - 65      | 20        | 63                                  | 0,1       | 0,2    |           | 8                               | 0,0       |
|         | 1966 - 70      | 6         | 21                                  | 0,0       | 0,1    |           | 6                               | 0,0       |
|         | 1969 - 73      | 8         | 16                                  | 0,0       | 0,0    |           | 2                               | 0,0       |

## INFLUENZA AND PNEUMONIA

These diseases are no longer notifiable in the Cape Town Municipality, but deaths from influenza and from bronchitis and pneumonia, with corresponding death rates per 1 000 population, are set out in the following table:

| PERIOD         | Influenza |      |           |      | Bronchitis |      |           |      | Pneumonia (all forms) |      |           |      |
|----------------|-----------|------|-----------|------|------------|------|-----------|------|-----------------------|------|-----------|------|
|                | White     |      | non-White |      | White      |      | non-White |      | White                 |      | non-White |      |
|                | No.       | Rate | No.       | Rate | No.        | Rate | No.       | Rate | No.                   | Rate | No.       | Rate |
| <b>YEAR</b>    |           |      |           |      |            |      |           |      |                       |      |           |      |
| 1969           |           |      | 9         | 0,02 | 45         | 0,21 | 90        | 0,20 | 29                    | 0,14 | 346       | 0,75 |
| 1970           | 1         | 0,00 | 5         | 0,01 | 50         | 0,23 | 114       | 0,24 | 39                    | 0,18 | 361       | 0,76 |
| 1971           |           |      |           |      | 45         | 0,19 | 107       | 0,21 | 44                    | 0,19 | 321       | 0,64 |
| 1972           |           |      | 1(2)      | 0,00 | 34(58)     | 0,24 | 50(86)    | 0,17 | 29(50)                | 0,21 | 207(354)  | 0,69 |
| 1973           |           |      | 6         | 0,01 | 21         | 0,09 | 53        | 0,10 | 83                    | 0,34 | 419       | 0,79 |
| <b>AVERAGE</b> |           |      |           |      |            |      |           |      |                       |      |           |      |
| 1946 – 50      | 4         | 0,0  | 9         | 0,1  | 18         | 0,1  | 105       | 0,5  | 56                    | 0,3  | 365       | 1,8  |
| 1951 – 55      | 5         | 0,0  | 6         | 0,0  | 16         | 0,1  | 50        | 0,2  | 52                    | 0,3  | 249       | 1,0  |
| 1956 – 60      | 3         | 0,0  | 6         | 0,0  | 11         | 0,1  | 30        | 0,1  | 53                    | 0,3  | 263       | 0,8  |
| 1961 – 65      | 3         | 0,0  | 5         | 0,0  | 16         | 0,1  | 41        | 0,1  | 49                    | 0,2  | 272       | 0,7  |
| 1966 – 70      |           |      | 4         | 0,0  | 36         | 0,2  | 79        | 0,2  | 31                    | 0,1  | 323       | 0,7  |
| 1969 – 73      |           |      | 4         | 0,1  | 41         | 0,2  | 90        | 0,2  | 49                    | 0,2  | 360       | 0,7  |

The following figures for deaths from bronchitis and pneumonia show the contrast between White and non-White compared with the previous year:—

|                             | 1972    |           | 1973  |           |
|-----------------------------|---------|-----------|-------|-----------|
|                             | White   | non-White | White | non-White |
|                             | No.     | No.       | No.   | No.       |
| <b>Under 5 years of age</b> |         |           |       |           |
| 0 – 1 year                  | 3( 5)   | 100(171)  | 4     | 192       |
| 1 – 2 years                 | 2(3)    | 83(142)   |       | 143       |
| 2 – 4 years                 | 1(2)    | 9( 15)    | 3     | 35        |
| All other ages              | 60(103) | 8( 14)    | 1     | 14        |
|                             |         |           | 100   | 280       |
|                             | 63(108) | 257(440)  | 104   | 472       |

The infant mortality rate per 1 000 live births from these causes for a series of past years is set out in Table K, on pages 102 and 103.

The seasonal character of morality from bronchitis and pneumonia will be found in Table C on page 93.

## PUERPERAL FEVER AND OPHTHALMIA NEONATORUM

See Section III, Maternal and Child Welfare, page 33.

## MEASLES

During the year 724 cases were admitted to the City Hospital of whom 352 were from outside the city, 19 from Langa and 82 from Guguletu. In the previous year 608 cases were admitted.

Fifty deaths (1 White and 49 non-White) occurred compared with 20 (35) deaths in the previous year. 12 of these fifty deaths became known through the death returns.

It should be noted that measles is not a notifiable disease except under certain circumscribed circumstances, so that the figures noted above only refer to those cases brought to the notice of the department through admission to the City Hospital as a result of inability to isolate, bad home conditions or as a result of serious complications supervening.

The foregoing emphasised again the havoc wrought by the complications of this often underestimated disease. There is an urgent need for a measles vaccination programme in Cape Town and if State Health remains unable to subsidise it, the Local Authority should give urgent consideration to bearing the entire cost as is done in Johannesburg and Durban.

| PERIOD    | MEASLES |           |                           |           |
|-----------|---------|-----------|---------------------------|-----------|
|           | Deaths  |           | Rate per 1 000 population |           |
|           | White   | Non-White | White                     | Non-White |
| YEAR 1969 | 2       | 54        | 0,01                      | 0,12      |
| 1970      | 1       | 43        | 0,00                      | 0,09      |
| 1971      |         | 55        |                           | 0,11      |
| 1972      | 1(2)    | 19(33)    | 0,01                      | 0,06      |
| 1973      | 1       | 49        | 0,00                      | 0,09      |
| AVERAGE   |         |           |                           |           |
| 1946 - 50 | 1       | 24        | 0,0                       | 0,1       |
| 1951 - 55 |         | 14        | 0,0                       | 0,1       |
| 1956 - 60 | 1       | 18        | 0,0                       | 0,1       |
| 1961 - 65 | 2       | 49        | 0,0                       | 0,1       |
| 1966 - 70 | 1       | 44        | 0,0                       | 0,1       |
| 1969 - 73 | 1       | 47        | 0,0                       | 0,1       |

#### DIARRHOEAL DISEASES

The deaths registered during the year due to diarrhoea and enteritis numbered 324 as compared with 224 in the previous year.

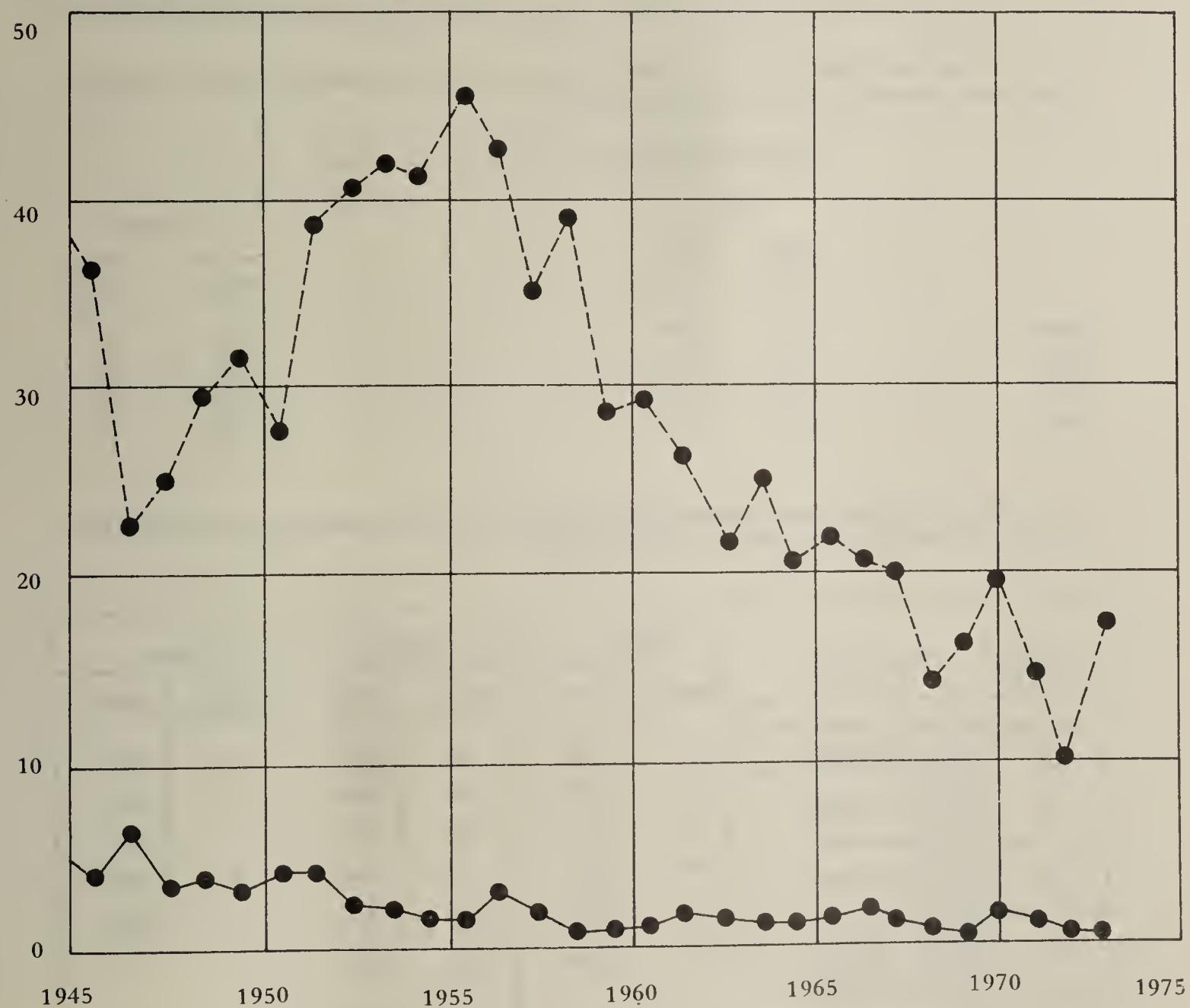
The corresponding death rates for the City were 0,42 (0,1 White and 0,61 non-White) per 1 000 population.

| Int. Code No. | Disease  | White | Non-White | All Races |
|---------------|--|-------|-----------|-----------|
| 571,764       | Gastro-enteritis and colitis, including diarrhoea of the newborn | 1     | 312       | 313       |
| 572           | Chronic enteritis and ulcerative colitis                         | 2     | 1         | 3         |
| 043           | Cholera  |       |           |           |
| 045           | Dysentery, bacillary   |       | 1         | 1         |
| 046           | Dysentery, amoebic   |       | 6         | 6         |
| 047-048       | Dysentery, other forms   |       | 1         | 1         |
|               | Total  | 3     | 321       | 324       |
|               | Diarrhoeal death rate per 1 000 population                       | 0,01  | 0,61      | 0,42      |

Of the 312 non-White deaths from gastro-enteritis, 129 occurred in Ward 13, 92 in the Bantu Townships, 40 in Ward 17, 18 in Ward 9 and 12 in Ward 16; and of these 90% were under 5 years of age i.e. 215 under one year, 53 between 1 and 2 years and 14 between 2 and 4 years.

Infant deaths (*0-1 year*) from diarrhoea and enteritis for a series of years:

| Year      | DIARRHOEA AND ENTERITIS |        |           |        |           |        |
|-----------|-------------------------|--------|-----------|--------|-----------|--------|
|           | White                   |        | Non-White |        | All Races |        |
|           | Male                    | Female | Male      | Female | Male      | Female |
| Year 1969 | 2                       | 1      | 155       | 124    | 157       | 125    |
| 1970      | 4                       | 1      | 161       | 173    | 165       | 174    |
| 1971      | 3                       | 1      | 124       | 123    | 127       | 124    |
| 1972      |                         |        | 58(99)    | 47(81) | 58(99)    | 47(81) |
| 1973      |                         | 1      | 113       | 102    | 113       | 103    |
| Average   |                         |        |           |        |           |        |
| 1946 - 50 | 9                       | 6      | 142       | 107    | 151       | 113    |
| 1951 - 55 | 5                       | 3      | 224       | 206    | 229       | 209    |
| 1956 - 60 | 3                       | 2      | 210       | 195    | 213       | 197    |
| 1961 - 65 | 3                       | 2      | 176       | 155    | 178       | 157    |
| 1966 - 70 | 2                       | 2      | 147       | 142    | 149       | 145    |
| 1969 - 73 | 2                       | 1      | 130       | 121    | 132       | 121    |



Gastro-enteritis.

Infant deaths per 1 000 live births.

White \_\_\_\_\_

Non-White \_\_\_\_\_

## KWASHIORKOR

Although this syndrome is no longer notifiable, 29 deaths (*all non-White*) were recorded during the year. This compares with 24 deaths in the previous year.

## CANCER

In accordance with the International Classification List of Causes of Death, this disease now appears as malignant neoplasms, including neoplasms of lymphatic and haematopoietic tissues.

The number of deaths certified during the year as being due to cancer was 943, (430 White and 513 non-White), compared with 879 (406 White and 473 non-White) in the previous year.

Among Whites the increase was mainly confined to neoplasms of the lymphatic, haematopoietic tissues, buccal cavity and pharynx. In the case of non-Whites the increase was primarily confined to neoplasms of unspecified sites and oesophagus.

In view of public interest in the causation of lung cancer and its relationship to cigarette smoking, the following figures may be of interest.

Deaths from neoplasms of trachea and lung bronchus:-

|      | Whites |        | Rates per 100 000 population |        | Non-Whites |        | Rates per 100 000 population |        |
|------|--------|--------|------------------------------|--------|------------|--------|------------------------------|--------|
|      | Male   | Female | Male                         | Female | Male       | Female | Male                         | Female |
| 1947 | 21     | 3      | 23,5                         | 3,1    | 4          | 2      | 4,1                          | 2,0    |
| 1957 | 46     | 6      | 49,8                         | 5,9    | 27         | 5      | 17,0                         | 3,0    |
| 1967 | 57     | 7      | 57,1                         | 6,4    | 51         | 8      | 22,9                         | 3,7    |
| 1971 | 53     | 17     | 47,3                         | 13,8   | 54         | 10     | 21,3                         | 4,1    |
| 1973 | 58     | 23     | 50,2                         | 18,1   | 83         | 13     | 31,1                         | 5,0    |

From these figures it is obvious that lung cancer deaths among males is worthy of further consideration and analysis in so far as ages are concerned.

## PERCENTAGE UNDER AND OVER 55 YEARS

|      | White                 |                      | Non-White             |                      |
|------|-----------------------|----------------------|-----------------------|----------------------|
|      | Under<br>55 yrs.<br>% | Over<br>55 yrs.<br>% | Under<br>55 yrs.<br>% | Over<br>55 yrs.<br>% |
| 1969 | 21                    | 79                   | 40                    | 60                   |
| 1970 | 15                    | 85                   | 30                    | 70                   |
| 1971 | 13                    | 87                   | 37                    | 63                   |
| 1972 | 18                    | 82                   | 38                    | 62                   |
| 1973 | 24                    | 76                   | 43                    | 57                   |

The deaths from cancer registered during the year and the corresponding rates are classified in the following table according to the parts of the body affected.

| Int.<br>Code No. | Parts affected                                     | White  |      | Non-White |      | All Races |      |
|------------------|--|--------|------|-----------|------|-----------|------|
|                  |  | Deaths | Rate | Deaths    | Rate | Deaths    | Rate |
| 140 – 148        | Malignant neoplasm of buccal cavity and pharynx    | 15     | 0,06 | 18        | 0,03 | 33        | 0,04 |
| 150              | Malignant neoplasm of oesophagus                   | 13     | 0,05 | 52        | 0,10 | 65        | 0,08 |
| 151              | Malignant neoplasm of stomach                      | 33     | 0,14 | 66        | 0,12 | 99        | 0,13 |
| 152 – 153        | Malignant neoplasm of intestine                    | 34     | 0,14 | 13        | 0,02 | 47        | 0,06 |
| 154              | Malignant neoplasm of rectum                       | 13     | 0,05 | 5         | 0,01 | 18        | 0,02 |
| 155 – 156        | Malignant neoplasm of liver                        | 11     | 0,05 | 38        | 0,07 | 49        | 0,06 |
| 157              | Malignant neoplasm of pancreas                     | 21     | 0,09 | 14        | 0,03 | 35        | 0,05 |
| 162 – 163        | Malignant neoplasm of trachea and bronchus of lung | 81     | 0,33 | 96        | 0,18 | 177       | 0,23 |
| 170              | Malignant neoplasm of breast                       | 44     | 0,18 | 45        | 0,09 | 89        | 0,12 |
| 171 – 172        | Malignant neoplasm of cervix uteri                 | 5      | 0,02 | 30        | 0,06 | 35        | 0,05 |
| 175              | Malignant neoplasm of ovary                        | 11     | 0,05 | 6         | 0,01 | 17        | 0,02 |
| 177              | Malignant neoplasm of prostate                     | 18     | 0,07 | 12        | 0,02 | 30        | 0,04 |
| 180              | Malignant neoplasm of kidney                       | 6      | 0,02 | 1         | 0,00 | 7         | 0,01 |
| 181              | Malignant neoplasm of bladder                      | 18     | 0,07 | 9         | 0,02 | 27        | 0,04 |
| 200 – 205        | Neoplasm of lymphatic and haematopoietic tissues   | 40     | 0,16 | 33        | 0,06 | 73        | 0,09 |
| –                | Malignant neoplasm of other and unspecified sites  | 67     | 0,28 | 75        | 0,14 | 142       | 0,18 |
|                  | TOTAL  | 430    | 1,77 | 513       | 0,97 | 943       | 1,22 |

*MEDICAL EXAMINATIONS*

Medical examinations for initial entry into the Council service and for admission to the municipal pension fund are carried out by the department. During the year 4 550 attendances were recorded as follows:—

*EXAMINATION CENTRE*

| Department               | Total | Fit   | Temporarily unfit | Unfit |
|--------------------------|-------|-------|-------------------|-------|
| City Engineer            | 2 772 | 2 047 | 491               | 234   |
| City Electrical Engineer | 757   | 552   | 153               | 52    |
| Town Clerk               | 933   | 651   | 196               | 86    |
| City Treasurer           | 48    | 42    | 5                 | 1     |
| Health                   | 40    | 21    | 13                | 6     |
|                          | 4 550 | 3 313 | 858               | 379   |

The Department also provides medical attention for Fire Brigade and Traffic personnel.

## SECTION VI - TUBERCULOSIS

DR. R.A. SPIRO

TUBERCULOSIS OFFICER

During the year under review 2 768 cases of tuberculosis (*all forms*) were notified — an increase of 505 over 1972 and again tuberculosis has remained a serious health problem in the City of Cape Town. The total number of local cases rose from 1 740 in 1972 to 1 798 in 1973. When pulmonary tuberculosis cases are regarded separately figures show an increase — 1 393 in 1972 to 1 414 in 1973. The new notification of non-pulmonary cases has increased from 347 in 1972 to 384 in 1973. The co-operation in the reporting of non-pulmonary cases between the Day Hospital organisation and other hospitals of the Provincial Administration with its Associated District Nurses Association and the Tuberculosis Branch has remained excellent.

The notification ratio of pulmonary tuberculosis per thousand of the population for White, Coloured and Bantu Races is as follows: 1 : 7,3 : 37,2 as compared to 1 : 7,3 : 34 in 1972. These figures indicate that proportionally for the White and Coloured Groups, the figures are the same but incidence of pulmonary tuberculosis has increased among the Bantu. This again demonstrates that the fight against tuberculosis is far from being won. It is hoped that with the improved socio-economic conditions of the urbanised Bantu and with the BCG vaccinations programme that there will be a reduction in the incidence in this group in the future years.

The out-patient treatment of pulmonary tuberculosis is now fully established. The clinic at Retreat was opened during the 1st week of December 1973. 53% of all new notifications were treated at the clinic on a domiciliary or ambulatory basis. The cases admitted to hospitals are being confined for much shorter periods and they are then discharged to the clinics for the continuation therapy. Table H shows that in 1973 there has been a slight increase in the attendances over 1972.

The patient co-operation has been good. Education, particularly among the Coloured and Bantu school children is being carried out.

As in the previous years the branch activity has been directed mainly towards the early discovering and treatment of patients in the non-White group.

The local new cases of tuberculosis reported in 1973 corrected for misdiagnosis and imported cases are classified in Table A.

TABLE A

|   | Lungs |               | Pleural effusion |               | Primary complex |               | Mantoux<br>Under 5 years |               | Other forms |               |
|---|-------|---------------|------------------|---------------|-----------------|---------------|--------------------------|---------------|-------------|---------------|
|   | White | Non-<br>White | White            | Non-<br>White | White           | Non-<br>White | White                    | Non-<br>White | White       | Non-<br>White |
| City<br>Langa<br>Guguletu   | 49    | 610           | 2                | 41            |                 | 29            |                          | 7             | 3           | 174           |
|   |       | 307           |                  | 15            |                 | 4             |                          | 5             |             | 40            |
|   |       | 319           |                  | 15            |                 | 23            |                          | 3             |             | 152           |
| Total local cases   | 49    | 1 236         | 2                | 71            |                 | 56            |                          | 15            | 3           | 366           |
| Imported infec-<br>tion<br>Hospitalised from<br>outside the<br>city | 5     | 572           |                  | 15            |                 | 27            |                          | 8             |             | 91            |
|   |       | 35            | 203              | 1             | 2               |               |                          |               | 1           | 10            |
|   |       | 89            | 2 011            | 3             | 88              |               | 83                       |               | 4           | 467           |

In addition to the 1 798 local cases there were 970 cases and infections from outside the municipal area of which 443 pulmonary cases were clinic treated throughout their illness (*i.e.* 51%).

TABLE B

Pulmonary notifications by race

Local cases only

|           | Notifications |       | Rate per 1 000 population |      |
|-----------|---------------|-------|---------------------------|------|
|           | 1972          | 1973  | 1972                      | 1973 |
| White     | 53            | 51    | 0,22                      | 0,21 |
| Coloured  | 663           | 655   | 1,61                      | 1,53 |
| Bantu     | 681           | 716   | 7,47                      | 7,93 |
| Asiatic   | 2             | 7     | 0,02                      | 0,69 |
| Non-White | 1 346         | 1 378 | 2,62                      | 2,61 |
| All races | 1 399         | 1 429 | 1,86                      | 1,85 |

Further particulars regarding age-groups and wards of the City will be found in Tables N to P on pages 106 to 109.

TABLE C

Deaths from pulmonary tuberculosis (*corrected*) and the corresponding death rates were as follows:—

|           | Deaths    |      | Rate per 1 000 population |      |
|-----------|-----------|------|---------------------------|------|
|           | 1972      | 1973 | 1972                      | 1973 |
| White     | 7(12)     | 8    | 0,05                      | 0,03 |
| Coloured  | 62(106)   | 132  | 0,26                      | 0,31 |
| Bantu     | 49(84)    | 49   | 0,92                      | 0,54 |
| Asiatic   | 2(3)      | 2    | 0,30                      | 0,20 |
| Non-White | 113(193)  | 183  | 0,38                      | 0,35 |
| All races | 120*(205) | 191  | 0,27                      | 0,25 |

\* The figures do not include deaths from February to June inclusive (*5 months*), for which details of deaths were unobtainable. Yearly totals have been obtained by proportion and are shown in brackets. These latter have been used to compute the yearly rates.

TABLE D

Notifications and deaths in other forms of tuberculosis

|                       | White |        | Non-White |        | Total |        |
|-----------------------|-------|--------|-----------|--------|-------|--------|
|                       | Cases | Deaths | Cases     | Deaths | Cases | Deaths |
| Meninges              |       |        | 19        | 11     | 19    | 11     |
| Abdominal             |       |        | 8         | 8      |       |        |
| Bones and joints      |       |        | 13        |        | 13    |        |
| Glands                | 2     |        | 292       |        | 294   |        |
| Genito urinary system |       |        | 6         |        | 6     |        |
| Disseminated          |       |        | 14        | 7      | 14    | 7      |
| Other organs          | 1     |        | 14        | 1      | 15    | 1      |
| Total                 | 3     |        | 366       | 19     | 369   | 19     |

Notifications: Of the 366 non-White cases 173 were Coloured 192 were Bantu and 1 Asiatic.  
 Deaths: Of the 19 non-White deaths 18 were Coloured and 1 Bantu.

Notifications and deaths of cases of tuberculous meningitis are reflected in the ensuing table.

*NOTIFICATIONS AND DEATHS FROM TUBERCULOUS MENINGITIS  
OVER A SERIES OF YEARS*

| YEAR | NOTIFICATIONS | DEATHS |
|------|---------------|--------|
| 1950 | 152           | 160    |
| 1955 | 91            | 55     |
| 1960 | 51            | 26     |
| 1965 | 28            | 12     |
| 1970 | 25            | 5      |
| 1971 | 16            | 9      |
| 1972 | 18            | 5(9)   |
| 1973 | 19            | 11     |

*TABLE E*

The discovery rates for pulmonary tuberculosis and tuberculosis in other forms per 1 000 population for the 5 year period 1969 to 1973 are shown below.

| RACE      | Pulmonary tuberculosis |      |      |      |      | Tuberculosis, other forms |      |      |      |      |
|-----------|------------------------|------|------|------|------|---------------------------|------|------|------|------|
|           | 1969                   | 1970 | 1971 | 1972 | 1973 | 1969                      | 1970 | 1971 | 1972 | 1973 |
| White     | 0,34                   | 0,31 | 0,33 | 0,22 | 0,21 | 0,03                      | 0,03 | 0,03 | 0,03 | 0,01 |
| Coloured  | 2,03                   | 2,07 | 1,67 | 1,61 | 1,53 | 0,28                      | 0,43 | 0,44 | 0,39 | 0,40 |
| Bantu     | 7,61                   | 7,75 | 7,76 | 7,47 | 7,93 | 0,84                      | 1,14 | 1,78 | 1,90 | 2,13 |
| Asiatic   | 0,66                   | 0,96 | 0,52 | 0,02 | 0,69 | 0,11                      | 0,21 |      | 0,10 | 0,01 |
| Non-White | 3,03                   | 3,07 | 2,78 | 2,62 | 2,61 | 0,38                      | 0,55 | 0,68 | 0,65 | 0,69 |
| All races | 2,17                   | 2,20 | 1,99 | 1,86 | 1,85 | 0,27                      | 0,39 | 0,47 | 0,45 | 0,48 |

*DEATHS*

The death rates per 1 000 population from pulmonary and non-pulmonary tuberculosis (*corrected*) are shown below for each racial group during the past 5 years:—

*TABLE F*

| RACE      | Pulmonary tuberculosis |      |      |      |      | Tuberculosis, other forms |      |      |      |      |
|-----------|------------------------|------|------|------|------|---------------------------|------|------|------|------|
|           | 1969                   | 1970 | 1971 | 1972 | 1973 | 1969                      | 1970 | 1971 | 1972 | 1973 |
| White     | 0,03                   | 0,04 | 0,02 | 0,05 | 0,03 | 0,00                      | 0,01 |      |      |      |
| Coloured  | 0,32                   | 0,28 | 0,22 | 0,26 | 0,31 | 0,03                      | 0,02 | 0,03 | 0,02 | 0,04 |
| Bantu     | 0,81                   | 0,85 | 0,75 | 0,92 | 0,54 | 0,18                      | 0,09 | 0,05 | 0,08 | 0,01 |
| Asiatic   | 0,11                   | 0,32 | 0,10 | 0,30 | 0,20 |                           |      |      |      |      |
| Non-White | 0,40                   | 0,38 | 0,31 | 0,38 | 0,35 | 0,05                      | 0,03 | 0,03 | 0,03 | 0,04 |
| All races | 0,29                   | 0,28 | 0,22 | 0,27 | 0,25 | 0,04                      | 0,02 | 0,02 | 0,02 | 0,02 |

The death rates per 1 000 of the population from all forms of tuberculosis (*corrected*) are shown in the following table;—

TABLE G

|                               | Death rate per 1 000 population |           |           |
|-------------------------------|---------------------------------|-----------|-----------|
|                               | White                           | Non-White | All races |
| 5 years ended 30th June, 1946 | 0,72                            | 6,06      | 3,45      |
| 5 " " " 1951                  | 0,57                            | 4,51      | 2,71      |
| 5 " " 31st Dec., 1955         | 0,20                            | 1,70      | 1,09      |
| 5 " " " 1961                  | 0,16                            | 0,71      | 0,50      |
| 5 " " " 1966                  | 0,08                            | 0,49      | 0,34      |
| 5 " " " 1971                  | 0,04                            | 0,43      | 0,30      |
| 5 " " " 1972                  | 0,04                            | 0,41      | 0,29      |
| 5 " " " 1973                  | 0,04                            | 0,40      | 0,28      |
| Calender year                 |                                 |           |           |
| " " 1969                      | 0,04                            | 0,46      | 0,32      |
| " " 1970                      | 0,05                            | 0,41      | 0,28      |
| " " 1971                      | 0,02                            | 0,35      | 0,24      |
| " " 1972                      | 0,05                            | 0,41      | 0,29      |
| " " 1973                      | 0,03                            | 0,38      | 0,27      |

## ANTI-TUBERCULOSIS CENTRE

TABLE H

|             | New Consultations |        | Total Attendances |        |
|-------------|-------------------|--------|-------------------|--------|
|             | 1972              | 1973   | 1972              | 1973   |
| Cape Town:  |                   |        |                   |        |
| White       | 607               | 650    | 2 664             | 2 409  |
| Non-White   | 1 586             | 1 749  | 9 316             | 9 313  |
| TOTAL       | 2 193             | 2 399  | 11 980            | 11 722 |
| Wynberg:    |                   |        |                   |        |
| White       | 417               | 349    | 1 201             | 1 200  |
| Non-White   | 1 716             | 1 518  | 8 701             | 9 248  |
| TOTAL       | 2 133             | 1 867  | 9 902             | 10 448 |
| Kensington: |                   |        |                   |        |
| Non-White   | 837               | 853    | 5 140             | 8 302  |
| TOTAL       | 837               | 853    | 5 140             | 8 302  |
| Athlone:    |                   |        |                   |        |
| Non-White   | 1 128             | 977    | 5 079             | 5 145  |
| TOTAL       | 1 128             | 977    | 5 079             | 5 145  |
| Silvertown: |                   |        |                   |        |
| Non-White   | 1 960             | 1 827  | 13 104            | 11 648 |
| TOTAL       | 1 960             | 1 827  | 13 104            | 11 648 |
| Langa:      |                   |        |                   |        |
| Bantu       | 1 231             | 1 789  | 8 791             | 11 036 |
| Guguletu:   |                   |        |                   |        |
| Bantu       | 1 931             | 2 156  | 15 992            | 15 342 |
| Retreat:    |                   |        |                   |        |
| Non-White   |                   | 36     |                   | 210    |
| TOTAL       |                   | 36     |                   | 210    |
| TOTALS:     |                   |        |                   |        |
| White       | 1 024             | 999    | 3 865             | 3 609  |
| Non-White   | 10 389            | 10 905 | 69 988            | 70 244 |
| All races   | 11 413            | 11 904 | 73 853            | 73 853 |

## Number of sessions:

|              |              |
|--------------|--------------|
| Cape Town    | 229          |
| Wynberg      | 192          |
| Athlone      | 110          |
| Kensington   | 110          |
| Silvertown   | 186          |
| Langa        | 146          |
| Guguletu     | 202          |
| Retreat      | 4            |
| <b>TOTAL</b> | <b>1 179</b> |

The primary consultations at the clinics during the year are classified in Table I below:-

TABLE I

| Persons attending<br>for first time | White      |            |            |            | Non-White    |              |              |              | Total        | All<br>races  |               |
|-------------------------------------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
|                                     | Adults     |            | Children   |            | Total        | Adults       |              | Children     |              |               |               |
|                                     | M          | F          | M          | F          |              | M            | F            | M            | F            |               |               |
| Notified:                           |            |            |            |            |              |              |              |              |              |               |               |
| Accepted                            | 12         | 6          |            |            | 18           | 213          | 99           | 64           | 52           | 428           |               |
| Observation                         |            |            |            |            |              |              |              |              |              | 446           |               |
| Not accepted                        |            |            |            |            |              |              |              |              |              |               |               |
| TOTAL                               | 12         | 6          |            |            | 18           | 213          | 99           | 64           | 52           | 428           |               |
|                                     |            |            |            |            |              |              |              |              |              | 446           |               |
| Contacts :                          |            |            |            |            |              |              |              |              |              |               |               |
| Notified                            | 1          | 2          | 1          | 2          | 6            | 24           | 55           | 101          | 115          | 295           |               |
| Observation                         |            |            |            |            |              |              |              |              |              | 301           |               |
| Non-Tuberculous                     | 104        | 173        | 82         | 90         | 449          | 630          | 1 213        | 1 107        | 1 203        | 4 153         |               |
| TOTAL                               | 105        | 175        | 83         | 92         | 455          | 654          | 1 268        | 1 208        | 1 318        | 4 448         |               |
|                                     |            |            |            |            |              |              |              |              |              | 4 602         |               |
| Suspects:                           |            |            |            |            |              |              |              |              |              |               |               |
| Notified                            | 20         | 14         |            |            | 34           | 807          | 326          | 150          | 136          | 1 419         |               |
| Observation                         |            |            |            |            |              |              |              |              |              | 1 453         |               |
| Non-tuberculous                     | 196        | 220        | 52         | 62         | 530          | 1 844        | 1 527        | 615          | 636          | 4 622         |               |
| TOTAL                               | 216        | 234        | 52         | 62         | 564          | 2 651        | 1 853        | 765          | 772          | 5 152         |               |
|                                     |            |            |            |            |              |              |              |              |              | 6 555         |               |
| <b>TOTAL</b>                        | <b>333</b> | <b>415</b> | <b>135</b> | <b>154</b> | <b>1 037</b> | <b>3 518</b> | <b>3 220</b> | <b>1 987</b> | <b>2 142</b> | <b>10 867</b> | <b>11 904</b> |

TABLE J

## AMBULATORY INJECTIONS - CLINICS

|             | 1972   | 1973   |
|-------------|--------|--------|
| Cape Town:  |        |        |
| White       | 905    | 1 091  |
| Non-White   | 4 324  | 4 749  |
| TOTAL       | 5 229  | 5 840  |
| Wynberg:    |        |        |
| White       | 1 188  | 448    |
| Non-White   | 2 548  | 2 852  |
| TOTAL       | 3 736  | 3 300  |
| Kensington: |        |        |
| White       | 2 853  | 3 568  |
| Non-White   | 2 853  | 3 568  |
| Athlone:    |        |        |
| White       | 2 586  | 3 664  |
| Non-White   | 2 586  | 3 664  |
| Silvertown: |        |        |
| White       | 2 985  | 5 138  |
| Non-White   | 2 985  | 5 138  |
| Langa:      |        |        |
| Bantu       | 12 843 | 24 362 |
| Guguletu:   |        |        |
| Bantu       | 15 433 | 22 817 |
| Retreat:    |        |        |
| Non-White   |        | 155    |
| Total:      |        |        |
| White       | 2 093  | 1 539  |
| Non-White   | 43 672 | 67 305 |
| TOTAL       | 45 765 | 68 844 |

Those cases treated with streptomycin at the clinics on an ambulatory basis resulted in a total of 68 844 injections being given during the year. This number of injections represents an increase of 50,4% over 1972 and is, in the main, due to the large number of cases now receiving their entire treatment as outpatients.

Two nurses are employed full-time on domiciliary treatment and in 1973 gave a total of 17 354 injections.

## MOBILE X RAY UNIT

The mobile 100 mm X-ray units have continued to work to capacity throughout the year and the following gives the comparative figures for the years 1972 - 1973.

|      |       |       |           |        |       |        |
|------|-------|-------|-----------|--------|-------|--------|
| 1972 | White | 1 162 | non-White | 20 759 | TOTAL | 21 921 |
| 1973 | White | 1 203 | non-White | 22 123 | TOTAL | 23 326 |

The second unit was brought into operation during October 1973.

## SOURCES OF NOTIFICATION

The sources of notifications (*all forms*) received during the year (*including imported infections i.e. those now resident in Cape Town and known to have contracted the disease before arrival,*) were as follows:—

TABLE K

|  |       |
|--|-------|
| Private practitioners                    | 290   |
| General hospitals and other institutions | 1 340 |
| City Health Department branches          | 965   |
| Other local authorities                  | 173   |
|  | 2 768 |

The figure of 2 768 total notifications compares with 2 263 in 1972 and 2 321 in 1971.

The following table gives an arbitrary analysis of all primary notifications showing the degree and reasons for the failure to attend the clinics.

TABLE L

|   | Cape Town | Imported Infection | Langa | Guguletu | Outside Cape Town | Total |
|---|-----------|--------------------|-------|----------|-------------------|-------|
| Attended clinic                         | 785       | 665                | 322   | 435      | 8                 | 2 215 |
| Failed to attend                        | 130       | 57                 | 49    | 77       | 244               | 557   |
|   | 915       | 722                | 371   | 512      | 252               | 2 772 |
| Failure to attend clinics:              |           |                    |       |          |                   |       |
| In hospital                             | 71        | 36                 | 26    | 40       | 243               | 416   |
| Hospital out-patients                   | 13        | 1                  |       | 7        |                   | 21    |
| Too ill                                 |           |                    |       | 1        |                   | 1     |
| Died before notification                | 1         |                    | 3     |          |                   | 4     |
| First advice through death registration | 20        | 5                  | 4     | 10       |                   | 39    |
| Refusals                                | 10        |                    | 6     | 7        | 1                 | 24    |
| Under private care                      | 1         |                    |       |          |                   | 1     |
| Untraceable or decamped on notification | 14        | 15                 | 10    | 12       |                   | 51    |
|   | 130       | 57                 | 49    | 77       | 244               | 557   |

TABLE M

| Period | Total Cape Town cases notified | Bedfast on notification | Percentage of total cases | Dead on notification | Percentage of total cases notified |
|--------|--------------------------------|-------------------------|---------------------------|----------------------|------------------------------------|
| 1971   | 1 816                          | 2                       | 0,1                       | 35                   | 1,9                                |
| 1972   | 1 740                          |                         |                           | 12                   | 0,7                                |
| 1973   | 1 798                          | 1                       | 0,1                       | 43                   | 2,4                                |

## HOSPITALIZATION

TABLE N

|  | Urban |                       | Langa | Guguletu | * Outside<br>Cape Town<br>cases |
|--|-------|-----------------------|-------|----------|---------------------------------|
|  | Local | Imported<br>infection |       |          |                                 |
| New pulmonary cases notified during the year                               | 738   | 627                   | 331   | 360      | 241                             |
| Known to have had T.B. positive sputum                                     | 358   | 209                   | 138   | 137      | 102                             |
| New pulmonary cases admitted to institutions for treatment of tuberculosis | 337   | 203                   | 147   | 185      | 240                             |
| Proportion of new cases admitted   | 46°/o | 32°/o                 | 44°/o | 51°/o    | 100°/o                          |
| Died before receipt of notification  | 20    |                       | 4     |          |                                 |
| Died within 6 months of notification                                       | 27    | 4                     | 7     | 5        | 19                              |

## PULMONARY CASES TREATED BUT NOT ADMITTED TO HOSPITAL

|        | Local | Imported<br>infection | Langa | Guguletu | * Outside<br>Cape Town<br>cases |
|--------|-------|-----------------------|-------|----------|---------------------------------|
| Male   | 193   | 301                   | 129   | 88       | 1                               |
| Female | 173   | 109                   | 21    | 66       |                                 |

\* Outside Cape Town cases — cases admitted to the City Hospital or other hospitals from outside the municipal area.

A further 226 first positive sputa were obtained from patients notified in previous years.

As will be seen from the above table, 53°/o of all new notifications were treated on a domiciliary or ambulatory basis and this figure does not include those who left hospital before completing treatment and continued treatment as out-patients.

The total number of cases of pulmonary tuberculosis admitted or re-admitted to institutions during the year was 1 624 compared with 1 810 last year.

These were distributed as follows:—

TABLE O

|                                      | White |         | Non-White |         | Total |
|--------------------------------------|-------|---------|-----------|---------|-------|
|                                      | Males | Females | Males     | Females |       |
| City Hospital, Cape Town             |       |         |           |         |       |
| Brooklyn Chest Hospital              | 48    | 22      | 70        | 403     | 543   |
| Other institutions (Cape Town cases) |       |         | 813       | 45      | 858   |
|                                      |       |         | 146       | 77      | 223   |

During the year, 2 032 contact children received B.C.G. vaccination by the percutaneous method compared with 1 800 in 1972.

All those given B.C.G. were negative Mantoux reactors.

## CARE COMMITTEE FOR TUBERCULOSIS PATIENTS

The voluntary Care Committee works in close co-operation with the City Health Department. Accommodation for the almoner is provided at the central municipal anti-tuberculosis centre. Her salary and transport allowance is defrayed by the Local Authority.

The number of families assisted by monetary grants was 932.

The work done during the year is as follows:—

|   |                                       |     |
|---|---------------------------------------|-----|
| Families helped                         | by payment of rent                    | 76  |
| " "                                     | maintenance grants                    | 343 |
| " "                                     | rent and maintenance grants           | 69  |
| " "                                     | hospital grants                       | 444 |
| " "                                     | provision of clothing and<br>blankets | 66  |
| No. of articles of clothing distributed |                                       | 188 |
| No. of blankets distributed             |                                       | 47  |

## ALMONER:

|                  |       |
|------------------|-------|
| Visits paid      | 692   |
| Interviews given | 2 020 |
| New cases        | 520   |

The creche which is under control of the Care Committee for Tuberculous patients accepts the children of tuberculous parents who, although showing no signs of active pulmonary disease, have been exposed to infection.

These children are kept in healthy surroundings and given health education while the parents are undergoing treatment or when the child's mother is obliged to go out to work to augment the family income because of the father's illness.

The SANTA day creche at Athlone, which is financed and run by the Cape Provincial Tuberculosis Council, provides accommodation for 55 infants and children ranging in age from six months to school going age. The department and the public owe a considerable debt of gratitude to the Cape Province Tuberculosis Council for the preventive work which is being carried on so successfully in this institution.

## MASS RADIOGRAPHY SERVICES

The mass X-ray unit situated at Chapel Street functioned efficiently throughout the year. The attendances dropped from 65 349 in 1972 to 63 097 in 1973 (3,4%). The number of cases discovered suffering from Pulmonary Tuberculosis was 225 as against 232 in 1972.

Comparative figures for miniature examinations are shown below according to race and sex.

TABLE P

| Period    | White  |         | Non-White |         | Total  |
|-----------|--------|---------|-----------|---------|--------|
|           | Males  | Females | Males     | Females |        |
| Year 1971 | 10 164 | 5 862   | 33 086    | 21 784  | 70 896 |
| " 1972    | 9 551  | 5 792   | 28 245    | 21 761  | 65 349 |
| " 1973    | 8 768  | 5 254   | 26 173    | 22 902  | 63 097 |

In addition to the 63 097 miniature film examinations made during the year, 971,100 mm. films were taken as compared with 1 331 in the previous year.

1 046 of those X-rayed were recalled for further examination. Of this number 228 were found to be suffering from active tuberculosis, compared with 232 in the previous year. This represents 0,4 per cent of the 63 097 miniature films examined.

Comparative figures for the incidence of active pulmonary tuberculosis discovered in the various age groups are given in the following table.

TABLE Q

| Year | Race      | Active tuberculosis discovered |    |         |    |         |   |      |   |       |    | Extra municipal cases<br>(included in<br>foregoing) |    |
|------|-----------|--------------------------------|----|---------|----|---------|---|------|---|-------|----|---|----|
|      |           | 15 - 24                        |    | 25 - 34 |    | 35 - 44 |   | 45 + |   | Total |    |   |    |
|      |           | M                              | F  | M       | F  | M       | F | M    | F | M     | F  | M   | F  |
| 1972 | White     | 1                              | 2  | 3       | 1  | 1       | 1 | 3    | 1 | 8     | 5  | 3   |    |
|      | Non-White | 31                             | 21 | 42      | 16 | 46      | 6 | 52   | 5 | 171   | 48 | 22  | 2  |
|      | All races | 32                             | 23 | 45      | 17 | 47      | 7 | 55   | 6 | 179   | 53 | 25  | 2  |
| 1973 | White     | 1                              | 1  | 1       | 1  | 2       |   | 3    | 2 | 7     | 4  |   | 1  |
|      | Non-White | 31                             | 30 | 33      | 24 | 34      | 9 | 49   | 7 | 147   | 70 | 26  | 19 |
|      | All races | 32                             | 31 | 34      | 25 | 36      | 9 | 52   | 9 | 154   | 74 | 26  | 20 |

Of the 228 cases of pulmonary tuberculosis discovered, 46 were previously known. As in the past many of these new cases denied having any symptoms.

In the year under review, 46 extra-municipal cases of tuberculosis were discovered compared with 27 in the previous year. All were notified and referred to their own local authority for treatment and supervision.

A clinic is also held for those cases diagnosed in the first instance by mass X-ray but which on further radiological and other examinations prove not to be pulmonary tuberculosis. A total of 351 such cases were handled many of whom were sent to the pulmonary units of a general hospital for further investigation and treatment.

#### LANGA MASS X-RAY

The mass radiography unit at Langa, installed in 1967, is used to examine all Bantu work seekers on arrival in Cape Town.

During the year 2 5000 persons were examined as compared with 23 694 in 1972. This represents an increase of 5,5% per cent. The number of new cases discovered rose by 14,2 per cent.

Particulars shown in the following table indicate the scope of the work:-

TABLE R

|                                  | 1971   | 1972   | 1973   |
|----------------------------------|--------|--------|--------|
| Persons examined                 | 25 205 | 23 694 | 25 000 |
| Recalled for further examination | 675    | 683    | 1 123  |
| New cases discovered             | 212    | 253    | 289    |
| Old cases previously known       | 108    | 160    | 293    |

Particulars of those recalled for further examination.

|   |     |     |     |
|---|-----|-----|-----|
| Old cases allowed to work under treatment | 96  | 141 | 282 |
| New cases allowed to work under treatment | 133 | 106 | 200 |
| Old cases unfit for work                  | 12  | 23  | 11  |
| New cases unfit for work                  | 80  | 144 | 89  |
| Cases found free of tubercle              | 189 | 255 | 541 |

Despite the fact that a large number of those X-rayed returned from the homelands for a further contract period in Cape Town the increasing number of new cases notified indicates the large reservoir of pulmonary tuberculosis existing in the Transkei particularly amongst adult working males.

## SECTION VII - VENEREAL DISEASE

DR. A.J. WILSON, VENEREAL DISEASE OFFICER

The year under review shows an increase of 1 001 new cases attending the municipal treatment centres compared with the previous year.

New White cases totalled 451 as against 476 and new non-White cases amounted to 13 721 as against 12 695.

Total attendances numbered 36 997 (*1 202 White and 35 795 non-White*) compared with 33 517 for 1972 and 30 881 for 1971.

New cases of syphilis increased by 434, a decrease of 28 for Whites and an increase of 462 for non-Whites, while 21 cases of congenital syphilis occurred as against 29 the previous year.

TABLE I

|                         | 1972      |                | 1973      |                |
|-------------------------|-----------|----------------|-----------|----------------|
|                         | New cases | Incidence rate | New cases | Incidence rate |
| RACE:                   |           |                |           |                |
| White                   | 476       | 2,0            | 451       | 1,9            |
| Non-White               | 12 695    | 24,7           | 13 721    | 26,0           |
| SEX:                    |           |                |           |                |
| Male                    | 9 813     | 26,3           | 10 526    | 27,5           |
| Female                  | 3 358     | 8,9            | 3 646     | 9,4            |
| DISEASES:               |           |                |           |                |
| Syphilis                | 3 521     | 4,7            | 3 963     | 5,1            |
| Syphilis, congenital    | 29        | 0,0            | 21        | 0,0            |
| Gonorrhoea              | 8 098     | 10,8           | 8 571     | 11,1           |
| Other Venereal diseases | 234       | 0,3            | 264       | 0,3            |
| Non-venereal diseases   | 1 265     |                | 1 352     |                |
| Undiagnosed             | 24        |                | 1         |                |
| All new cases           | 13 171    | 17,5           | 14 172    | 18,4           |

The true incidence rate for diagnosed cases of venereal disease, that is, the rate obtained by omitting those cases found not to have venereal disease and those remaining undiagnosed, was 16,6 per 1 000 population (*1,5 White and 23,6 non-White*). Last year the true incidence rates were 15,8 (*1,6 and 22,4 respectively*).

As venereal disease is not, except under certain specific circumstances, one of the notifiable infectious diseases, it should be realised that these rates are based on the number of individuals treated for venereal disease at the municipal treatment centres and takes no cognisance of persons who might be treated by their family practitioners.

TABLE II

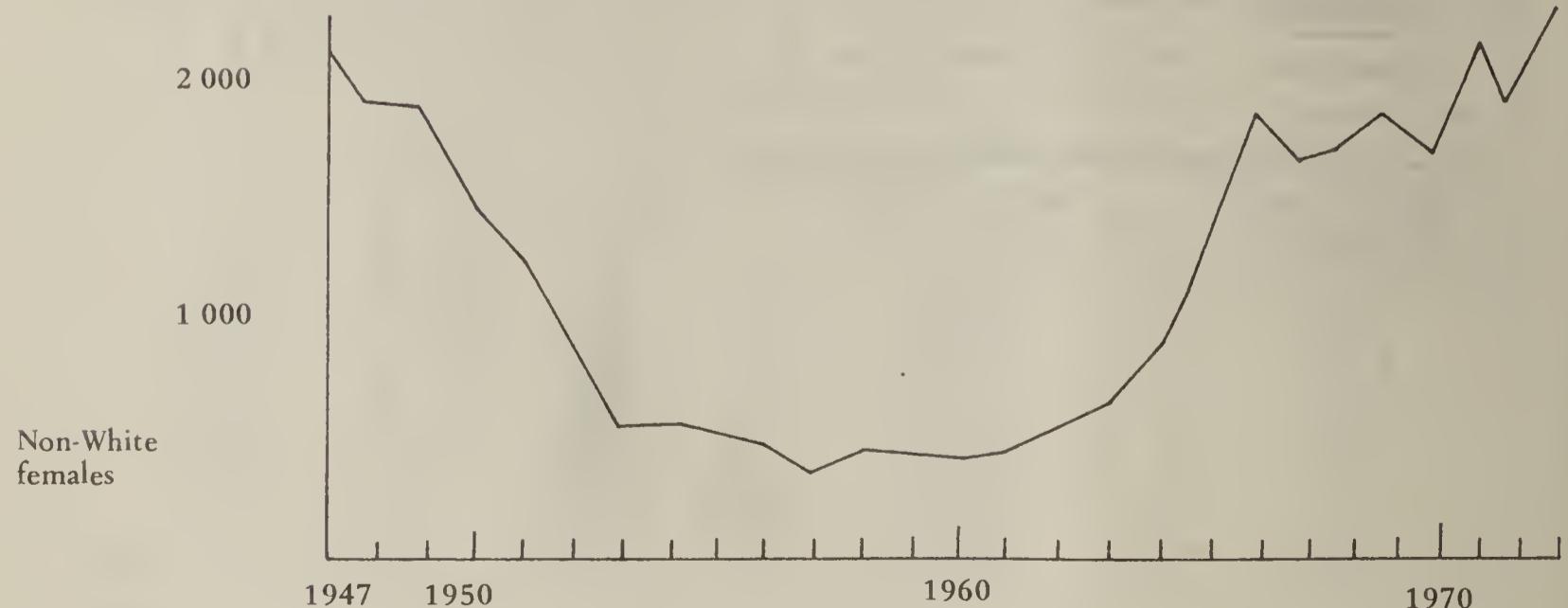
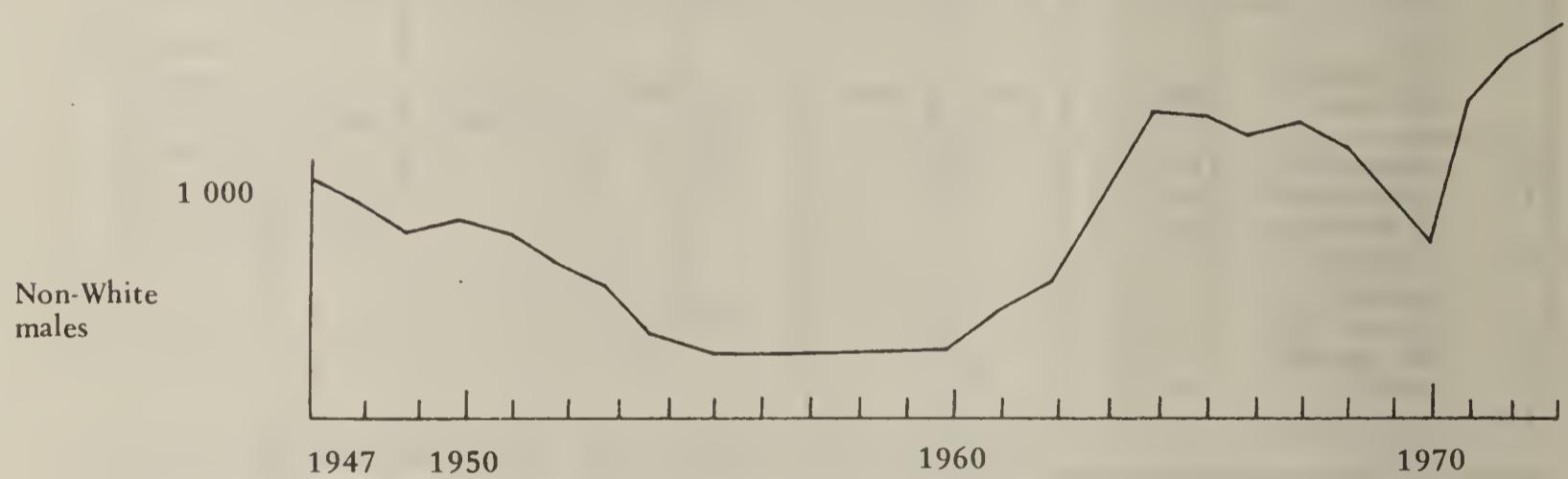
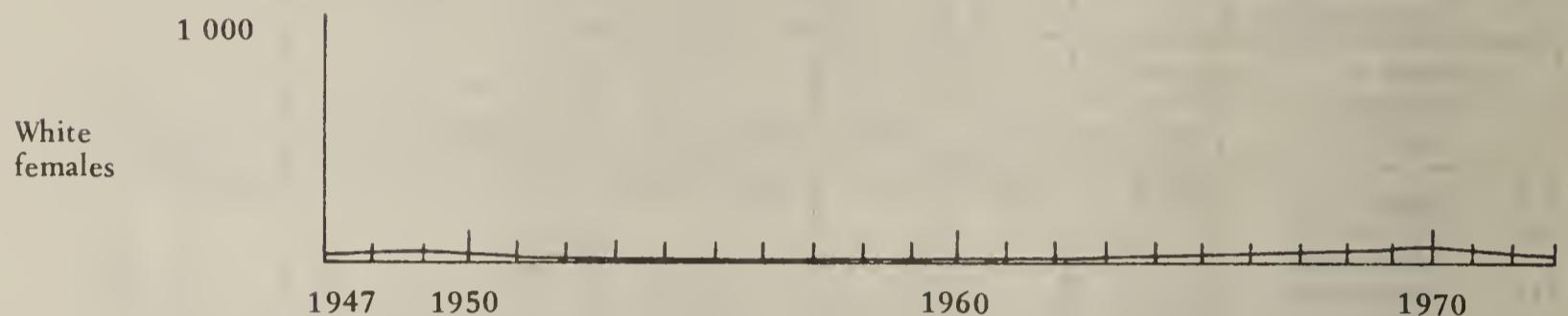
| Year | Total new cases * | Population ( <i>including Bantu Townships</i> ) | Incidence rate per 1 000 population |
|------|-------------------|---|-------------------------------------|
| 1940 | 4 212             | 322 813   | 13,1                                |
| 1950 | 4 461             | 424 207   | 10,5                                |
| 1955 | 3 208             | 490 992   | 6,5                                 |
| 1960 | 3 227             | 519 171   | 6,2                                 |
| 1965 | 6 327             | 610 010   | 10,4                                |
| 1970 | 8 963             | 694 230   | 12,9                                |
| 1971 | 9 995             | 735 760   | 13,6                                |
| 1972 | 11 882            | 752 460   | 15,8                                |
| 1973 | 12 819            | 770 780   | 16,6                                |

\* Excluding non-venereal and undiagnosed cases.

TABLE III

| Diseases  | New cases |    |           |       |        |       | Total attendances |           |        |        |    |   |
|---|-----------|----|-----------|-------|--------|-------|-------------------|-----------|--------|--------|----|---|
|   | White     |    | non-White |       | Total  | White |                   | non-White |        | Total  |    |   |
|   | M         | F  | M         | F     |        | M     | F                 | M         | F      |        | M  | F |
| 1 Seronegative primary Syphilis                 | 23        | 1  | 376       | 35    | 435    | 66    | 1                 | 980       | 114    | 1 161  |    |   |
| 2 Seropositive primary Syphilis                 | 14        | 1  | 714       | 84    | 813    | 65    | 3                 | 1 921     | 391    | 2 380  |    |   |
| 3 Secondary Syphilis                            | 7         | 4  | 170       | 215   | 396    | 26    | 17                | 583       | 1 139  | 1 765  |    |   |
| 4 Tertiary Syphilis                             |           | 1  | 15        | 16    | 32     |       | 2                 | 80        | 105    | 187    |    |   |
| 5 Latent Syphilis(1)                            | 13        | 8  | 321       | 1 933 | 2 275  | 91    | 71                | 1 410     | 9 261  | 10 833 |    |   |
| 6 Neurosyphilis                                 |           |    | 8         | 4     | 12     |       |                   | 38        | 33     | 71     |    |   |
| 7 Congenital Syphilis ( <i>under one year</i> ) |           |    | 6         | 11    | 17     |       |                   | 34        | 75     | 109    |    |   |
| 8 Congenital Syphilis ( <i>over one year</i> )  |           |    | 2         | 2     | 4      | 8     | 1                 | 6         | 23     | 38     |    |   |
| Total<br>( <i>Syphilitic infections</i> )       | 57        | 15 | 1 612     | 2 300 | 3 984  | 256   | 95                | 5 052     | 11 141 | 16 544 |    |   |
| 9 Gonorrhoea                                    | 193       | 17 | 7 905     | 436   | 8 551  | 399   | 39                | 13 552    | 987    | 14 977 |    |   |
| 10 Gonococcal vulvovaginitis                    |           |    |           | 8     | 8      |       |                   |           | 23     | 23     |    |   |
| 11 Gonococcal ophthalmia                        |           |    |           | 12    | 12     |       |                   | 1         | 36     | 37     |    |   |
| Total<br>( <i>Gonorrhoeal infections</i> )      | 193       | 17 | 7 905     | 456   | 8 571  | 399   | 39                | 13 553    | 1 046  | 15 037 |    |   |
| 12 Ulcos molle                                  |           |    | 4         | 1     | 5      |       |                   |           | 10     | 1      | 11 |   |
| 13 Lymphogranuloma venereum                     |           |    |           |       |        |       |                   |           |        |        |    |   |
| 14 Granuloma Inguinale                          |           |    |           |       |        |       |                   |           |        |        |    |   |
| 15 Venereal warts                               | 3         | 4  | 69        | 32    | 108    | 9     | 10                | 207       | 131    | 357    |    |   |
| 16 Non-specific urethritis                      | 61        | 3  | 80        | 2     | 146    | 134   | 7                 | 262       | 6      | 409    |    |   |
| 16(a) Reiters syndrome                          | 1         |    | 4         |       | 5      | 3     |                   | 12        |        | 15     |    |   |
| Total<br>( <i>Other venereal diseases</i> )     | 65        | 7  | 157       | 35    | 264    | 146   | 17                | 491       | 138    | 792    |    |   |
| 17 Non-venereal                                 | 70        | 26 | 466       | 790   | 1 352  | 144   | 59                | 1 264     | 2 422  | 3 889  |    |   |
| 18 Undiagnosed                                  | 1         |    |           |       | 1      | 25    | 22                | 285       | 403    | 735    |    |   |
| Grand Total                                     | 386       | 65 | 10 140    | 3 581 | 14 172 | 970   | 232               | 20 645    | 15 150 | 36 997 |    |   |

(1) Diagnosed on result of serological test alone.

*INCIDENCE OF SYPHILIS*

The following table shows the number of new cases of venereal disease attending the centres:

TABLE IV

| Year | New cases           |    |     |     |                      |       |       |       |                        |       |       |     |                         |     | Total |        |       |
|------|---------------------|----|-----|-----|----------------------|-------|-------|-------|------------------------|-------|-------|-----|-------------------------|-----|-------|--------|-------|
|      | Syphilis congenital |    |     |     | Syphilis other forms |       |       |       | Gonorrhoeal infections |       |       |     | Other venereal diseases |     |       |        |       |
|      | W                   |    | N-W |     | W                    |       | N-W   |       | W                      |       | N-W   |     | W                       |     | N-W   |        |       |
|      | M                   | F  | M   | F   | M                    | F     | M     | F     | M                      | F     | M     | F   | M                       | F   | M     | F      |       |
| 1945 | 2                   | 11 | 120 | 263 | 93                   | 51    | 758   | 1 353 | 191                    | 31    | 528   | 123 | 8                       | 1   | 51    | 7      | 3 591 |
| 1950 | 5                   | 5  | 149 | 338 | 96                   | 25    | 809   | 1 479 | 167                    | 12    | 1 141 | 146 | 15                      | 61  | 13    | 4 461  |       |
| 1955 | 1                   |    | 5   | 45  | 15                   | 12    | 290   | 506   | 175                    | 12    | 1 840 | 90  | 53                      | 1   | 111   | 52     | 3 208 |
| 1960 | 1                   |    | 9   | 6   | 18                   | 8     | 291   | 419   | 180                    | 4     | 2 109 | 144 | 2                       | 31  | 5     | 3 227  |       |
| 1965 | 2                   | 53 | 54  | 62  | 15                   | 1 251 | 1 271 | 221   | 21                     | 3 028 | 253   | 15  | 50                      | 31  | 5 327 |        |       |
| 1970 |                     | 13 | 8   | 57  | 26                   | 674   | 1 779 | 202   | 17                     | 5 692 | 382   | 27  | 2                       | 64  | 20    | 8 963  |       |
| 1971 |                     | 10 | 14  | 56  | 12                   | 1 264 | 2 130 | 165   | 24                     | 5 672 | 452   | 41  | 1                       | 111 | 43    | 9 995  |       |
| 1972 | 1                   | 15 | 13  | 81  | 18                   | 1 466 | 1 956 | 180   | 27                     | 7 378 | 513   | 67  | 3                       | 124 | 40    | 11 882 |       |
| 1973 |                     | 8  | 13  | 57  | 15                   | 1 604 | 2 287 | 193   | 17                     | 7 905 | 456   | 65  | 7                       | 157 | 35    | 12 819 |       |

## INCIDENCE AMONG TEEN-AGERS

The following figures, extracted from Table III, give some indication of the extent of venereal disease among teen-agers.

## New Cases, teen-agers

|         |           | Syphilis<br>1-8 | Gonorrhoea<br>9-11 | Other venereal<br>Diseases<br>12-16 | Total |
|---------|-----------|-----------------|--------------------|-------------------------------------|-------|
| White   | Non-White |                 |                    |                                     |       |
| Males   |           | 3               | 16                 |                                     | 19    |
| Females |           | 3               | 6                  | 1                                   | 10    |
| Males   | 228       |                 | 478                | 9                                   | 715   |
| Females | 268       |                 | 51                 | 13                                  | 332   |
| Total   |           | 502             | 551                | 23                                  | 1 076 |

These new cases are classified by age as follows:

| Age in years | White |        | Non-White |        | Total |
|--------------|-------|--------|-----------|--------|-------|
|              | Male  | Female | Male      | Female |       |
| 13           |       |        | 1         | 5      | 6     |
| 14           |       |        | 5         | 2      | 7     |
| 15           |       |        | 9         | 25     | 34    |
| 16           | 1     | 5      | 65        | 33     | 104   |
| 17           | 4     | 1      | 107       | 71     | 183   |
| 18           | 10    | 2      | 269       | 93     | 374   |
| 19           | 4     | 2      | 259       | 103    | 368   |
| Total        | 19    | 10     | 715       | 332    | 1 076 |

## MUNICIPAL TREATMENT CENTRES

Six municipal treatment centres now function for free advice and treatment of venereal disease, i.e. at the City Infectious Diseases Hospital, Salt River, Wynberg, Kensington, Guguletu and Silvertown. During the year 21 medical sessions (5 White and 16 non-White) were held each week.

Table V shows the number of new cases (*including non-venereal*) registered at the various municipal treatment centres, together with the number of attendances or consultations held. It should be noted that male and female sessions for White and non-White are held at the City Hospital and Wynberg centres, male and female sessions for non-Whites only at Salt River, male and female sessions for non-Whites only at Kensington and female sessions for non-Whites only at Guguletu and Silvertown.

TABLE V

| Centre  | Sessions | New cases | Attendances |
|---|----------|-----------|-------------|
| City Hospital, Potswood Road                    | 344      | 1 526     | 3 633       |
| Salt River                                      | 292      | 8 252     | 18 377      |
| Wynberg   | 287      | 2 165     | 5 764       |
| Kensington                                      | 49       | 119       | 533         |
| Guguletu  | 51       | 528       | 1 866       |
| Silvertown                                      | 50       | 431       | 2 061       |
| Pre-natal clinics<br>(at child welfare centres) |          | 1 151     | 4 763       |
| TOTAL   | 1 073    | 14 172    | 36 997      |

## VENEREAL DISEASE CONTACTS

Where definite information regarding contacts can be supplied, the patient is requested to persuade the contact to attend the clinic with an identification slip provided for the purpose. During the year, 438 such persons responded as shown below. This compares with the figure of 484 the previous year. The number of 12 819 new cases registered leaves a balance of unknown reservoirs of infection which is quite formidable.

TABLE VI

| Contact | Total | Syphilis | Gonorrhoea | Other venereal diseases | Non venereal |
|---------|-------|----------|------------|-------------------------|--------------|
| Husband | 18    | 9        | 3          | 1                       | 5            |
| Wife    | 206   | 25       | 150        | 3                       | 28           |
| Friend  | 214   | 68       | 120        | 3                       | 23           |
| Other   |       |          |            |                         |              |
| TOTAL   | 438   | 102      | 273        | 7                       | 56           |

## PATHOLOGICAL EXAMINATION

In order to establish an early diagnosis, microscopic examinations of sores and discharges are carried out at all clinic sessions. The number of such examinations during the year was as follows:-

TABLE VII

|  | Positive | Negative | Total |
|--|----------|----------|-------|
| Number of dark-ground examinations of Sp. Pall | 1 059    | 4        | 1 063 |
| Number of smear examinations of gonococci      | 179      | 10       | 189   |

In addition 6 211 blood specimens and 389 smears were sent to the Government laboratory for examination.

**SECTION VIII - CITY HOSPITALS**

DR. T.J. MALHERBE MEDICAL SUPERINTENDENT

The city group of hospitals consists of the following institutions:—

- (1) The City Hospital for Infectious Disease in Portswood Road, Cape Town.
- (2) The Brooklyn Hospital for Chest Diseases off Koeberg Road, Brooklyn.

**CITY HOSPITAL FOR INFECTIOUS DISEASES, PORTSWOOD ROAD**

This hospital can provide accommodation for 518 patients. Persons diagnosed as suffering from any of the notifiable infectious diseases are admitted to and isolated in this institution. Cases of other non-notifiable infectious diseases where special medical and social reasons demand it are also admitted to this institution.

Accommodation is also provided for White male and female and non-White female sufferers from pulmonary tuberculosis. The clinical infectious material in this institution is available for the practical training of medical students from the Universities of Cape Town and Stellenbosch. Graduate nurses are also trained in all aspects of infectious disease nursing at the hospital.

The medical staff at the 31 December, 1973 consisted of the Medical Superintendent, Deputy Medical Superintendent and six medical officers.

**HOSPITAL STATISTICS**

The daily average number of beds occupied in the City Hospital, Portswood Road, and Brooklyn Hospital in the year under report was as follows:—

| Disease                   | From Cape Town Municipality |              | From outside Municipality |              |
|---------------------------|-----------------------------|--------------|---------------------------|--------------|
|                           | White                       | Non-White    | White                     | Non-White    |
| Measles                   | 0,3                         | 17,7         | 0,4                       | 15,5         |
| Acute poliomyelitis       |                             | 0,3          | 0,0                       | 3,3          |
| Cerebrospinal fever       | 0,1                         | 2,4          | 0,4                       | 2,3          |
| Diphtheria                | 0,1                         | 0,3          | 0,1                       | 0,6          |
| Enteric fever             | 0,1                         | 1,1          | 0,1                       | 2,6          |
| Scarlet fever             | 0,0                         | 0,1          | 0,0                       | 0,0          |
| Whooping cough            | 0,0                         | 1,2          | 0,1                       | 1,0          |
| Tuberculosis, pulmonary   | 5,6                         | 376,1        | 10,0                      | 82,5         |
| Tuberculosis, other forms |                             | 16,0         | 0,4                       | 8,9          |
| Leprosy                   |                             | 0,1          |                           |              |
| V.D.                      |                             | 0,0          |                           |              |
| Other diseases            | 0,3                         | 2,8          | 0,3                       | 3,1          |
| <b>TOTAL</b>              | <b>6,8</b>                  | <b>418,0</b> | <b>11,9</b>               | <b>120,0</b> |

The average daily number of patients in the hospital was 257.

|  | White |    | Non-White |     | Total |
|--|-------|----|-----------|-----|-------|
|  | M     | F  | M         | F   |       |
| Patients in hospital 31 December, 1972 | 17    | 6  | 80        | 175 | 278   |
| Admitted                               | 92    | 63 | 605       | 913 | 1 673 |
| Discharged                             | 96    | 63 | 599       | 871 | 1 629 |
| Died                                   | 7     | 2  | 32        | 50  | 91    |
| In hospital 31 December, 1973          | 6     | 4  | 54        | 167 | 231   |

**AGE GROUPING OF PATIENTS**

|              | Under 5 years | 5 - 14 years | 15 - 24 years | 25 - 44 years | Over 45 years | TOTAL        |
|--------------|---------------|--------------|---------------|---------------|---------------|--------------|
| White        | 40            | 31           | 25            | 30            | 52            | 178          |
| Non-White    | 1 130         | 171          | 177           | 219           | 76            | 1 773        |
| <b>TOTAL</b> | <b>1 170</b>  | <b>202</b>   | <b>202</b>    | <b>249</b>    | <b>128</b>    | <b>1 951</b> |

**CLINICAL ROOM AND X-RAY DEPARTMENT**

This department is available not only for in-patients but also for out-patients from this and other hospitals, and for cases referred from the tuberculosis clinics.

|  | White | Non-White | TOTAL |
|--|-------|-----------|-------|
| Attendances                                |       |           |       |
| <b>CLINICAL ROOM:</b>                      |       |           |       |
| Surgical consultations                     | 9     | 202       | 211   |
| Mantoux tests                              | 59    | 191       | 250   |
| Schick tests                               | 19    | 83        | 102   |
| Special injections ( <i>bronchograms</i> ) |       |           |       |
| Other injections and examinations          | 95    | 609       | 704   |
| <b>X-RAY DEPARTMENT:</b>                   |       |           |       |
| X-Rays                                     | 1 493 | 7 040     | 8 533 |
| Bronchograms                               | 5     |           | 5     |
| Tomograms                                  | 5     | 13        | 18    |
| Special X-Rays                             |       | 3         | 3     |
| Dental                                     |       | 51        | 51    |
| C C C Patients                             | 3     | 16        | 19    |
| C D C Patients                             | 72    | 84        | 156   |
| C D C X-Rays                               | 62    | 86        | 148   |

**OPERATING THEATRE**

The operations performed during the year were as follows:—

|              |    |
|--------------|----|
| Bronchoscopy | 4  |
| Tracheotomy  | 21 |

**DENTAL TREATMENT**

The dental officer attends periodically and provides dental attention for tuberculous in-patients.

During the year under report 77 patients attended for dental treatment. Further details are shown in the table on page 42 .

**BROOKLYN HOSPITAL FOR CHEST DISEASES**

The hospital is situated in Stanberry Street, off Koeberg Road, Ysterplaat within a few hundred yards of Table Bay. The single-storied wards are set in very large lawned grounds and offer a total of 330 beds for the treatment of ill pulmonary tuberculosis patients. Also within the grounds is situated a compound for the treatment and isolation of smallpox patients and contacts.

The hospital obtains dispensary services from the City Hospital.

The laundry caters for a number of outlying clinics and the City Hospital as well as for domestic laundry.

**POPULATION CATERED FOR**

The 330 beds are reserved for the hospitalisation of the following groups of non-White patients:—

|                                    | Male             | Female |
|------------------------------------|------------------|--------|
| MEDICAL .....                      | ADULT .....      | 284 0  |
|                                    | PAEDIATRIC ..... | 24 0   |
| SURGICAL ( <i>all ages</i> ) ..... | 11               | 11     |

**MEDICAL STAFF**

As at 31 December, 1973 the medical staff consisted of the Medical Superintendent and 5 medical officers. Specialist advice and assistance was available from private specialists at medical aid rates.

The post of Medical Superintendent was occupied by Dr. T.J. Malherbe until 31 March, 1973 and by Dr. M.E.E. Popkiss from 15 June, 1973. In the intervening period Dr. M.E.E. Popkiss Acted in this capacity.

The average daily number of in-patients during the year was 299.

Patients treated in Brooklyn Chest Hospital during the year were as follows:

#### NON-WHITES ONLY

|                                      | Males | Females | Total |
|--------------------------------------|-------|---------|-------|
| In hospital 31 December, 1972        | 296   |         | 296   |
| Admitted                             | 821   | 14      | 835   |
| Discharged                           | 731   | 13      | 744   |
| Died                                 | 82    | 1       | 83    |
| Remaining in hospital at end of year | 304   |         | 304   |

#### EXAMINATIONS AND TREATMENT

|                           | Staff | Patients | Total |
|---------------------------|-------|----------|-------|
| Examinations              | 85    |          | 85    |
| Sick parade               | 872   |          | 872   |
| Mantoux tests             | 91    |          | 91    |
| Aspirations               |       | 102      | 102   |
| Special injections        | 22    |          | 22    |
| Lumbar puncture           |       | 39       | 39    |
| Intubations               |       | 16       | 16    |
| Paracentesis of abdomen   |       | 2        | 2     |
| Pleural Biopsy            |       | 18       | 18    |
| Toxoid ( <i>Tetanus</i> ) | 541   |          | 541   |
| Vaccinations              | 146   |          | 146   |

#### X-RAY DEPARTMENT

|              | Skiagrams | Bronchograms | Tomograms | Orthopaedic | Special Examinations |
|--------------|-----------|--------------|-----------|-------------|----------------------|
| Staff        | 769       |              | 3         | 47          |                      |
| In-patients  | 3 962     | 44           | 38        | 107         | 28                   |
| Out-patients | 156       |              | 1         |             |                      |

#### DENTAL TREATMENT (Salt River Clinic)

|          | New Cases | Extractions | Other Treatment | Total | Attendances |
|----------|-----------|-------------|-----------------|-------|-------------|
| Adults   | 236       | 253         | 265             |       | 518         |
| Children | 27        | 37          | 6               |       | 43          |
| Sessions |           |             |                 |       | 72          |

#### OPERATING THEATRE

| TYPE OF OPERATION | Major     | Minor     |
|-------------------|-----------|-----------|
| Thoracic          | 53        | 49        |
| Orthopaedic       | 13        | 1         |
| Urological        |           | 5         |
| Gynaecological    |           | 1         |
| General           | 5         | 9         |
| <b>TOTAL</b>      | <b>71</b> | <b>65</b> |

#### THE LAUNDRY

The laundry caters for both the City and Brooklyn Hospitals, as well as all C.C.C. clinics.

| QUARTERLY FIGURES | ARTICLES  | BAGS   |
|-------------------|-----------|--------|
| 1st Quarter       | 283 459   | 4 440  |
| 2nd Quarter       | 282 871   | 4 290  |
| 3rd Quarter       | 296 602   | 4 514  |
| 4th Quarter       | 302 350   | 3 243  |
|                   | 1 165 282 | 16 487 |

## AMBULANCE AND DISINFECTING STATION

This is situated in the grounds of the City Hospital, Portswood Road. There is garage accommodation, in which are housed (*besides other departmental cars*) three ambulances for the removal of cases of infectious disease, two vans for the transport of infectious and disinfected bedding, and two vans for the distribution of supplies to the municipal hospitals and clinics.

The disinfecting station contains two Washington-Lyon pressure steam disinfectors and a formalin fumigating chamber.

The ambulance and disinfecting service is staffed by the ambulance officer, disinfection officer, five motor drivers and two labourers. This staff is also responsible for the disinfecting of houses and other premises for infectious diseases and other conditions. A fitter, assisted by a boiler attendant and labourer, is in charge of the disinfection station. The disinfection of bedding, etc. for both the hospitals is also done at the disinfecting station. The general ambulance service for the Cape Peninsula is operated by the Town Clerk on behalf of the Cape Provincial Administration.

The work done during the year by the infectious ambulance and disinfecting service is indicated by the following figures:—

| Ambulance journeys (return) |                                | Premises disinfected |                               |
|-----------------------------|--------------------------------|----------------------|-------------------------------|
| To City Hospital            | To other hospitals or premises | For Tuberculosis     | For other infectious diseases |
| 1 630                       | 592                            | 728                  | 473                           |

2 594 patients were conveyed in the three departmental ambulances, involving a total distance of 61 564 km. (38 255 miles).

The distance covered during the year by the vans was 201 957 km. (125 492 miles).

CLEANSING STATION  
(SCABIES AND PEDICULOSIS)

The cleansing station at 15 Cowley Street, Cape Town, is provided for the disinfection of verminous persons and their clothing. It is in the charge of a superintendent, who works under the supervision of a medical officer, and has two non-White assistants. The work consists mainly of the treatment of scabies, pediculosis and impetigo.

The attendances in the year under report were as follows:—

| Persons                         | First attendances |           |           |           |           |       | Total attendances |           |           |           |           |       |
|---------------------------------|-------------------|-----------|-----------|-----------|-----------|-------|-------------------|-----------|-----------|-----------|-----------|-------|
|                                 | Scabies           | Impe-tigo | Body lice | Ring worm | Head lice | Total | Scabies           | Impe-tigo | Body lice | Ring worm | Head lice | Total |
| Children under 16 years of age: |                   |           |           |           |           |       |                   |           |           |           |           |       |
| White boys                      | 1                 |           |           |           | 32        | 33    | 1                 |           |           |           | 38        | 39    |
| White girls                     |                   | 4         |           |           | 59        | 63    |                   | 5         |           |           | 82        | 87    |
| Non-White boys                  | 178               | 287       |           |           | 5         | 470   | 216               | 404       |           |           | 8         | 628   |
| Non-White girls                 | 274               | 319       |           |           | 58        | 651   | 293               | 398       |           |           | 69        | 760   |
| Total children                  | 453               | 610       |           |           | 154       | 1 217 | 510               | 807       |           |           | 197       | 1 514 |
| Adults:                         |                   |           |           |           |           |       |                   |           |           |           |           |       |
| White males                     |                   |           | 5         |           | 1         | 6     |                   |           |           |           | 1         | 6     |
| White females                   |                   | 1         | 1         |           | 5         | 7     |                   | 1         | 1         |           | 5         | 7     |
| Non-White males                 | 46                | 9         | 4         |           | 1         | 60    | 46                | 9         | 4         |           | 1         | 60    |
| Non-White females               | 105               | 8         | 5         |           | 5         | 123   | 116               | 8         | 5         |           | 5         | 134   |
| Total Adults                    | 151               | 18        | 15        |           | 12        | 196   | 162               | 18        | 15        |           | 12        | 207   |
| Total persons:                  |                   |           |           |           |           |       |                   |           |           |           |           |       |
| White                           | 1                 | 5         | 6         |           | 97        | 109   | 1                 | 6         | 6         |           | 126       | 139   |
| Non-White                       | 603               | 623       | 9         |           | 69        | 1 304 | 671               | 819       | 9         |           | 83        | 1 582 |
| All races                       | 604               | 628       | 15        |           | 166       | 1 413 | 672               | 825       | 15        |           | 209       | 1 721 |

The Cleansing Station only covers the local area of District Six, Woodstock, Salt River and Observatory, but scabies is also treated where necessary at the child welfare centres in other areas.

## SECTION IX – ENVIRONMENTAL SANITATION

### ESTABLISHMENT

On 31 December, 1973 the staff of health inspectors was as follows:—

|  | Authorised | Actual |
|--|------------|--------|
| Chief Health Inspector                     | 1          | 1      |
| Senior assistant chief health inspector    | 1          | 1      |
| Assistant chief health inspector           | 1          | 1      |
| Divisional health inspectors               | 5          | 5      |
| Health inspectors ( <i>White</i> )         | 34         | 27     |
| Health inspectors ( <i>Coloured</i> )      | 6          | 6      |
| Health inspectors ( <i>Bantu</i> )         | 3          | 3      |
| Learner health inspectors                  | 14         | 7      |
| Dairy inspectors                           | 3          | 3      |
| Plans scrutiny and Pest control inspectors | 4          | 4      |
|  | <hr/>      | <hr/>  |
|  | 72         | 56     |

The staff position showed a net gain of 2 White Health Inspectors during the year. However the 5 Learner Health Inspectors wrote their final examinations in November and the appointment of the successful candidates to the vacant Health Inspectors posts will certainly alleviate the staff position.

The authorised establishment of Learner Health Inspectors was decreased to 8 posts, 5 of which were filled.

### SCOPE OF WORK

The work carried out by the various sections of the inspectorate branch are set out in the schedules which follow.

#### DIVISIONAL HEALTH INSPECTORS

Owing to the ribbon development of the city, it became necessary many years ago to divide the municipality for environmental control purposes into 5 divisions, each division falling under the control of a divisional health inspector. Apart from the general environmental responsibility for their district and the junior staff attached to such divisions, they are also responsible for food sampling in their area in terms of the Food, Drugs and Disinfectants Act No. 13 of 1929.

The number of free samples that can be examined for the municipality by the Government Chemical Laboratory was fixed at 1 086 by Government Notice No. 97 of the 21 January, 1972. Sampling duty is undertaken by the five divisional inspectors plus eight senior health inspectors with transport allowance. It became necessary to increase the number of sampling officers in view of the increasing volume of work and the added responsibilities of the divisional health inspectors.

The following is a record of the samples taken during the year:—

| Name of Samples | No. of Samples | Adulterated | Prosecuted | Warned | Not Guilty | Case withdrawn | Fines R |
|-----------------|----------------|-------------|------------|--------|------------|----------------|---------|
| Milk            | 169            |             |            |        |            |                |         |
| Cream           | 83             |             |            |        |            |                |         |
| Mince Meat      | 205            | 18          | 13         | 5      |            |                |         |
| Sausage         | 273            | 39          | 33         | 5      |            | 1              | 1 465   |
| Polony          | 61             | 1           | 1          |        |            |                | 30      |
| Ice Cream       | 22             |             |            |        |            |                |         |
| Yoghourt        | 54             |             |            |        |            |                |         |
| Fresh meat      | 6              |             |            |        |            |                |         |
| Buttermilk      | 72             |             |            |        |            |                |         |
| Cheese          | 119            |             |            |        |            |                |         |
| Lard            | 1              |             |            |        |            |                |         |
| Dripping        | 5              |             |            |        |            |                |         |
| Orange juice    | 9              |             |            |        |            |                |         |
| Honey           | 2              |             |            |        |            |                |         |
| Apple juice     | 1              |             |            |        |            |                |         |
| Guava Juice     | 1              |             |            |        |            |                |         |
| Ham and Tougue  | 1              |             |            |        |            |                |         |
| Sherbet         | 1              |             |            |        |            |                |         |
| Total           | 1 086          | 58          | 47         | 10     |            | 1              | 2 005   |

The above figures reflect an increase of 11 in adulterated samples.

In addition to the foregoing, samples of water are taken fortnightly at thirty-two different test points within the water reticulation system of the municipal area.

These samples are submitted to the State Pathological Laboratory for Bacteriological Report, and serve as a double check on the sampling carried out by the Chemical Branch of the City Engineers Department.

#### PLANS SCRUTINY AND PEST CONTROL OFFICERS

##### PLANS

The two pest control officers seconded to the Building Survey Branch of the City Engineers Department, scrutinized 4 857 plans and minor works permits during 1973 compared with 4 847 in the previous year.

##### PEST CONTROL OFFICERS

The two pest control officers primarily responsible for the rodent, mosquito and cockroach control measures in the city are assisted by 26 Coloured rodent operatives, whose duties involve routine block-baiting with Warfarin and its derivatives for rodent control. In the year under review, 19 320 kg (42 505 lbs) of bait were laid.

The following schedule details the rodent control work carried out by this section during the year under review.

|  |        |
|--|--------|
| Inspections by pest control officers               | 5 597  |
| Inspections re rodents by other inspectors         | 44     |
| Inspections re mosquitos by other inspectors       | 414    |
| Visits made to lands and premises by rat-catchers: |        |
| Re rodents   | 58 433 |
| Re mosquitoes                                      | 13 995 |
| Number of notices served by pest control officers: |        |
| Verbal   | 3      |
| Written  | 29     |
| Number of rodents caught and destroyed:            |        |
| Brown rats   | 7 542  |
| Black rats   | 259    |
| Gerbilles  | 42     |
| Recovered after gassing operations                 | 394    |

The figures given above as to rodents destroyed include only the number of animals whose dead bodies were actually recovered. There is no reason to doubt that many more were destroyed by the methods employed.

The rodents destroyed and recovered are shown in the following table:-

| YEAR | Brown Rats | Black Rats | Gerbilles | Total  |
|------|------------|------------|-----------|--------|
| 1971 | 7 087      | 336        | 29        | 8 807* |
| 1972 | 7 019      | 261        |           | 9 337* |
| 1973 | 7 542      | 259        | 42        | 8 237* |

\* Including those recovered after gassing operations.

The rapid building expansion that has and is taking place on what used to be wide open spaces is rapidly reducing the Gerbille population and anti-gerbille work is carried out only when and where necessary.

##### MOSQUITOES

The pest control officers also specialise in anti-mosquito work. They investigate local prevalence of mosquitoes discovered through complaints or systematic inspection. They also institute permanent anti-mosquito measures in the Black River, extending from the Bokmakierie Township to the Royal Observatory, as well as giving attention to seasonal collections of standing water and other known mosquito breeding foci within the municipal area. Four of the operators under their control devote the whole of their time to oil-spraying of waters where mosquitoes are likely to breed, including oil treatment of standing water at the sewage disposal works, Athlone.

I am happy to record that due to dredging operations of the Black River by the City Engineers' Department during the year, and improved access to the vegetation lining the banks, mosquito breeding in this region was minimal.



The Days Catch



## COCKROACHES

In addition to dealing with anti-rat work and mosquito control, an increasingly important section of environmental sanitation has been the control of cockroaches in food establishments and foul and stormwater sewers.

These tasks are shared by the district health inspectors and the pest control officers. Where infestation is traced to the municipal sewers control measures are carried out by the City Engineer's Roads and Drainage staff.

Complaints of cockroach infestation are investigated jointly by the City Engineer's Department and this Department and appropriate action taken according to locality of any infestation discovered.

## DISTRICT HEALTH INSPECTORS

The inspections recorded as made by the district health inspectors during the year were as follows:—

|                                   |                |
|-----------------------------------|----------------|
| Aerated water factories           | 100            |
| Bakehouses                        | 835            |
| Boarding houses and hotels        | 967            |
| Chalets                           | 6 268          |
| Dairy Stables                     | 2 282          |
| Foodshops                         | 26 190         |
| Other shops                       | 9 561          |
| Hawkers                           | 2 023          |
| Horse stables and cattle premises | 1 193          |
| House inspections                 | 17 021         |
| Ice cream dealers                 | 909            |
| Infectious diseases               | 618            |
| Markets                           | 1 900          |
| Milk shops                        | 2 261          |
| Bantu vaccinated                  | 25 680         |
| Office interviews                 | 6 766          |
| Open land, beaches                | 6 500          |
| Places of entertainment           | 429            |
| Refuse tips                       | 311            |
| Restaurants and cafes             | 9 417          |
| Schools                           | 210            |
| Smoke and air pollution           | 561            |
| Streets and lanes                 | 2 782          |
| Vehicles                          | 5 727          |
| Washhouses                        | 459            |
| Other visits                      | 12 291         |
| <b>TOTAL</b>                      | <b>143 261</b> |

## PARTICULARS IN CONNECTION WITH VISITS RECORDED IN THE ABOVE INSPECTIONS

|   |    |
|---|----|
| Visits to premises where action was taken in connection with rodent infestation | 44 |
| Visits at which premises were disinfected                                       | 2  |
| Drain tests carried out   | 43 |

The notices served by health inspectors during the year under review are enumerated below:—

|  |              |
|--|--------------|
| Verbal notices                           | 177          |
| Formal written notices                   | 1 063        |
| <b>Total proceedings instituted</b>      | <b>1 240</b> |
| Written notices following verbal notices | 4            |
| <b>Total notices served</b>              |              |
| Verbal notices                           | 177          |
| Formal notices                           | 1 209        |
| <b>TOTAL NOTICES SERVED</b>              | <b>1 386</b> |

The number of items included in the 1 386 notices were as follows:—

|         | Drainage | Household | Business | Stable | Other | Total |
|---------|----------|-----------|----------|--------|-------|-------|
| Ward 1  |          | 6         | 1        |        | 2     | 9     |
| Ward 2  |          | 12        | 3        |        | 3     | 18    |
| Ward 3  |          | 12        | 4        |        | 6     | 22    |
| Ward 4  |          | 79        | 16       |        | 20    | 122   |
| Ward 5  |          | 49        | 9        |        | 9     | 67    |
| Ward 6  |          | 22        | 30       |        | 5     | 57    |
| Ward 7  | 7        | 4         | 14       |        | 3     | 21    |
| Ward 8  |          | 90        | 26       |        | 13    | 129   |
| Ward 9  |          | 24        | 17       |        | 12    | 53    |
| Ward 10 |          | 106       | 48       |        | 28    | 182   |
| Ward 11 |          | 6         | 1        |        | 4     | 11    |
| Ward 12 |          | 6         | 16       |        | 9     | 31    |
| Ward 13 |          | 65        | 97       |        | 94    | 256   |
| Ward 14 |          | 38        | 16       |        | 21    | 75    |
| Ward 15 |          | 27        | 38       |        | 16    | 81    |
| Ward 16 |          | 16        | 32       |        | 33    | 81    |
| Ward 17 |          | 43        | 53       | 1      | 48    | 145   |
| TOTAL   | 7        | 605       | 421      | 1      | 326   | 1 360 |

Other defects were dwelt with by the inspectors by reports of transmission to the City Engineer and other departments of the Corporation as follows:—

|                                |     |
|--------------------------------|-----|
| Stopped drains                 | 338 |
| Defective water fittings       | 29  |
| Unauthorised structures        | 52  |
| Undrained premises             | 18  |
| Structural defects to premises | 26  |
| Other defects                  | 36  |

#### MUNICIPAL WASHHOUSES

There are 5 washhouses in the municipal area namely at Hout St., Mowbray, Salt River, Claremont and Wynberg.

The attendances and takings at the washhouses (*including ironing rooms*) during the year were as follows:—

|             | Attendances | Money taken |     |
|-------------|-------------|-------------|-----|
|             |             | R           | c   |
| Hout Street | 4 924       | 711         | ,00 |
| Salt River  | 5 416       | 216         | ,64 |
| Mowbray     | 4 051       | 740         | ,24 |
| Claremont   | 7 504       | 1 235       | ,60 |
| Wynberg     | 22 152      | 886         | ,08 |
|             | 44 047      | 3 789       | ,56 |

The attendances and takings at the washhouses show a considerable decrease, a trend that has become apparent over the last few years. This is due to the dying out of the older washerwomen, the increase in flat dwellers who take their laundry to the laundrettes, which are opening up all over the municipal area and the ever increasing number of households with washing machines.

#### PUBLIC SANITARY CONVENIENCES

This Department has under its control 52 public sanitary conveniences (*chalets*) sited at convenient points throughout the municipal area, and which are staffed by 154 permanent attendants.

#### CASES BEFORE THE MAGISTRATES

The following table gives particulars of cases heard by the magistrates during the calendar year at the instance of the City Health Department. In most of the cases there were two or more separate counts; the counts are not enumerated in the table. In some cases more than one person was summonsed for the same offence; if any one accused was fined or reprimanded, the case is recorded in the table accordingly, notwithstanding that the other accused may have been discharged.

| Nature of Offence   | Number of Cases |                       |       |           |            |           | Total Fines<br>R |
|---|-----------------|-----------------------|-------|-----------|------------|-----------|------------------|
|   | Total           | Suspended<br>sentence | Fined | Cautioned | Not Guilty | Withdrawn |                  |
| Dwelling-house premises in insanitary condition.                              | 4               |                       | 3     |           |            | 1         | 130              |
| Insanitary conditions or other offences at food premises.                     | 2               |                       | 2     |           |            |           | 80               |
| Selling foodstuffs in contravention of the Food, Drugs and Disinfectants Act. | 37              | 1                     | 36    |           |            |           | 2 215            |

**SCHEDULE OF DEMOLITIONS**  
**HOUSING ACT NO. 4 OF 1966**  
**UNDER SECTION 85(1)**

Applications for demolition, referred to the Department of Community Development with recommendation for demolition, comprised the following:-

| No. of rooms per unit | 1973       |
|-----------------------|------------|
| 1                     | 5          |
| 2                     | 29         |
| 3                     | 46         |
| 4                     | 33         |
| 5                     | 30         |
| <b>TOTAL</b>          | <b>143</b> |

**UNDER SECTION 85(4)**

Demolitions permitted under the authority of the Medical Officer of Health (*Delegated Authority by the Cape Town City Council*).

| No. of rooms per unit                   | 1973      |
|---|-----------|
| 6                                       | 12        |
| 7                                       | 13        |
| 8                                       | 4         |
| 9                                       | 1         |
| 10                                      |           |
| 11                                      |           |
| 12                                      | 1         |
| 13                                      | 1         |
| Multi-roomed boarding houses and hotels | 5         |
| <b>TOTAL</b>                            | <b>37</b> |

**SLUMS ACT**

During 1973, 6 properties, two of which were structures of the "pondok" type, housing a total of 41 adults and 32 children, were reported to the Slums Court and were declared as slums by that body. All the tenants were to be rehoused by the City Council or the Department of Community Development depending on the area in which these properties were located. The demolition of these units and the rehousing of tenants was not completed by the end of 1973.

**TRADING LICENCES**

Municipal regulations require the annual licensing of these premises and the controlling of the equipment and management. Applications for licences are considered by the responsible committee after receiving a report from the Medical Officer of Health.

## REPORT OF THE MEDICAL OFFICER OF HEALTH

|                              | A  | B  | C  | D  | E | F |
|------------------------------|----|----|----|----|---|---|
| Purveyors of Milk            | 77 | 59 | 18 | 18 |   |   |
| Milk in Cartons              | 44 | 22 | 22 | 22 |   |   |
| Milk in Tankers              | 4  | 4  |    |    |   |   |
| Slaughterer of Poultry       | 3  | 2  | 1  | 1  |   |   |
| Electrical Wiring Contractor | 35 | 29 | 6  | 6  |   |   |

- A Applications received  
 B Granting of licences recommended (*without conditions*)  
 C Granting of licences recommended (*subject to conditions*)  
 D Number under item 3 later reported as having complied with conditions  
 E Refusal of licences recommended  
 F Applications withdrawn

## REGISTERED TRADES

## MATTRESS-MAKERS AND UPHOLSTERERS

Government regulations regarding mattress-makers and upholsterers (*Government Notice No. 1 384 of 1938*) prohibit any person from carrying on these trades unless registered annually by the Council.

|                                  | A  | B  | C | D | E | F |
|----------------------------------|----|----|---|---|---|---|
| Mattress Makers and Upholsterers | 27 | 22 | 5 | 5 |   |   |

The Registration and Licensing of Business Amendment Ordinance, 19 of 1972, to amend the Registration of Business Ordinance 1953, was promulgated on the 9 November, 1972, becoming effective from the 1 January, 1973.

It provides that no person shall carry on a business unless he is in possession of a certificate of registration and licence issued to him in terms of this ordinance.

There are fifty four business trades etc. listed in the Index to the First Schedule and the Council must obtain from its Medical Officer of Health, a report on the suitability from a Public Health point of view, of the premises where the business is to be carried on and of any premises where goods traded in are to be stored. All applications for certificates are referred by the Town Clerk to the Medical Officer of Health for report and the consequent inspections involve a considerable amount of work on the part of the health inspectors.

The following is an analysis of applications for certificates dealt with during the year:

| PERTAINING TO FOOD                     | A     | B     | C     | D     | E | F |
|--|-------|-------|-------|-------|---|---|
| Accommodation Establishments           | 48    | 38    | 10    | 10    |   |   |
| Bakers                                 | 14    | 13    | 1     | 1     |   |   |
| Butchers                               | 39    | 26    | 13    | 13    |   |   |
| Cafe Keepers                           | 334   | 235   | 99    | 99    |   | 2 |
| Dairy Farms                            | 206   | 195   | 11    | 11    |   |   |
| Dairy Shops                            | 8     | 6     | 2     | 2     |   |   |
| Eating Houses                          |       |       |       |       |   |   |
| Fish Mongers and Fish Friers           | 37    | 30    | 7     | 7     |   |   |
| Food Manufacturers                     | 22    | 18    | 4     | 4     |   |   |
| General Dealer                         | 1 780 | 1 426 | 354   | 354   |   | 3 |
| Hawkers                                | 1 598 | 953   | 645   | 645   |   |   |
| Laundries and Dry Cleaners             | 18    | 16    | 2     | 2     |   |   |
| Restaurants                            | 17    | 14    | 3     | 3     |   |   |
| Other Food Premises                    | 55    | 15    | 40    | 40    |   |   |
| Non Food                               |       |       |       |       |   |   |
| Creches or Nursery Schools             | 14    | 10    | 4     | 4     |   |   |
| Dealer in Motor Vehicles and Garages   | 216   | 148   | 68    | 68    |   |   |
| Kennels or Pet Boarding Establishments | 3     | 2     | 1     | 1     |   |   |
| Offensive Trades                       | 5     | 2     | 3     | 3     |   |   |
| Places of Entertainment                | 45    | 25    | 20    | 20    |   |   |
| Workshops                              | 79    | 56    | 23    | 23    |   |   |
| Other Non Food Premises                | 443   | 379   | 64    | 64    |   |   |
| TOTAL                                  | 4 981 | 3 607 | 1 374 | 1 374 |   | 5 |

## FOOD INSPECTIONS

The following foodstuffs were condemned as unfit for human consumption by the market health inspector during the year.

| Fruit:-       | Weight (kg) | Vegetables:-     | Weight (kg) |
|---------------|-------------|------------------|-------------|
| Pome          | 24 220      | Bulbs            | 34 520      |
| Drupe         | 18 230      | Flowers          | 16 708      |
| Citrus        | 109 160     | Leaves and stems | 190 090     |
| Vine          | 1 790       | Roots            | 34 600      |
| Miscellaneous | 21 340      | Seed Fruits      | 409 530     |
|               |             | Tubers           | 88 190      |
|               |             | Other Foodstuffs | 260         |

## BUTCHERS' DELIVERY VEHICLES

The continued enforcement of Regulation 1970 maintains the standard metal type of butchers vehicle in which all carcases are hung and are clear of the floor. During the year 207 meat delivery vehicles were licenced.

## FOOD VENDING MACHINES

The type of commodities dispensed by food vending machines continues to be hot and cold beverages.

These machines are mainly sited in licensed food shops.

## STABLE PREMISES

The Municipal Regulations empower the Council to prohibit the use for the keeping of animals, of any stable, cowshed, pigsty, kraal, etc., which in its opinion is 'unfit', undesirable or objectionable by reason of its locality, construction or manner of use. The City Council may also restrict the number or manner of use. The City Council may also restrict the number or kind of animal to be kept at any such premises.

Two cases of unsuitable and unauthorised structures which were being used to stable animals, were ordered to be demolished and the animals removed. In all cases the animals were removed and the structures demolished.

## ABATTOIR BRANCH

DR. A.A.L. ALBERTYN. B.V.Sc., F.R.S.H. DIRECTOR OF ABATTOIRS

The inspection of meat from animals killed at the municipal abattoir is under the control of the Director and Senior Veterinary Surgeon. No animals may be slaughtered elsewhere in the Municipality, and all meat from animals slaughtered outside the City and brought in for consumption must be deposited at one of the depots appointed by the Council, where it is inspected and if satisfactory, stamped and passed as fit for human consumption.

During 1973 the following livestock was slaughtered at the Maitland abattoir:-

|                | No.     |
|----------------|---------|
| Cattle         | 200 546 |
| Sheep          | 862 270 |
| Calves         | 16 670  |
| Pigs           | 122 100 |
| Equine Animals | 2 338   |
| Goats          | 20 205  |

The Abattoir operated at full capacity at most times during the year, supplying meat for consumption in Greater Cape Town as well as for a large percentage of the population in the Western Cape.

Apart from the very important service rendered to the health of the community by ensuring adequate supplies of clean safe meat, the abattoir must also be viewed as being the largest and most complicated factory and business centre in the Western Cape with a throughput of over R130 000 per day.

A schedule of diseases for which meat was condemned is shown below.

*ANIMALS SLAUGHTERED WITH DISEASES*

|                                     | BOVINES          |                |                      | CALVES           |                | SHEEP & GOATS        |                  |                | PIGS                 |                  |                |                      |
|-------------------------------------|------------------|----------------|----------------------|------------------|----------------|----------------------|------------------|----------------|----------------------|------------------|----------------|----------------------|
|                                     | No. of carcasses | Parts affected | Portions (weight kg) | No. of carcasses | Parts affected | Portions (weight kg) | No. of carcasses | Parts affected | Portions (weight kg) | No. of carcasses | Parts affected | Portions (weight kg) |
| Degenerative & Dropsical conditions |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Emaciation                          | 4                | 48             |                      | 8                | 64             |                      | 158              | 1 264          |                      | 7                | 56             |                      |
| Fatty Degeneration                  | 1                | 12             |                      |                  |                |                      |                  | 188            |                      | 6                | 1 134          |                      |
| Necrosis                            |                  | 5              |                      |                  |                |                      |                  | 1 045          |                      |                  | 8 941          |                      |
| Oedema                              | 6                | 72             |                      |                  |                |                      | 23               | 184            |                      | 1                | 8              |                      |
| General conditions                  |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Anaemia                             |                  |                |                      |                  |                |                      | 1                | 8              |                      |                  |                |                      |
| Overscolding                        |                  |                |                      |                  |                |                      |                  |                |                      | 1                | 8              |                      |
| Bruising                            | 446              | 5 544          | 30 102               | 17               | 136            | 75                   | 429              | 3 429          | 724                  | 22               | 12 095         | 2 310                |
| Contamination                       |                  | 822            |                      | 1                | 742            | 15                   | 2                | 185            | 79                   |                  | 108 186        |                      |
| Fever                               | 120              | 1 440          |                      | 32               | 256            |                      | 172              | 1 366          |                      | 28               | 224            |                      |
| Icterus                             | 40               | 480            |                      | 18               | 144            |                      | 518              | 4 144          |                      | 9                | 72             |                      |
| Immaturity                          |                  |                |                      | 235              | 1 880          |                      |                  |                |                      |                  |                |                      |
| Mutilated                           |                  |                |                      |                  |                |                      | 2                | 16             | 21                   |                  |                |                      |
| Moribund                            | 14               | 168            |                      | 10               | 80             |                      | 72               | 576            |                      | 13               | 104            |                      |
| Telangiectasis                      |                  | 3 170          |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Uraemia                             |                  |                |                      |                  |                |                      | 9                | 72             |                      | 2                | 16             |                      |
| Infectious Diseases                 |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Actinomycosis                       |                  | 1 354          |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Anaplasmosis                        | 34               | 531            |                      |                  |                |                      | 746              | 125 254        | 6 779                |                  |                |                      |
| Caseous Lymphadenitis               |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Babesiosis                          | 1                | 12             |                      |                  |                |                      |                  |                |                      | 1                | 8              |                      |
| Erysipelas                          |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Leptospirosis                       |                  |                |                      |                  |                |                      |                  |                |                      |                  | 114            |                      |
| Tuberculosis                        | 107              | 2 629          |                      | 1                | 8              |                      |                  |                |                      | 32               | 1 412          |                      |
| Inflammatory conditions             |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Arthritis                           | 4                | 48             |                      | 5                | 40             |                      | 47               | 376            |                      | 2                | 96             |                      |
| Cirrhosis                           |                  | 1 149          |                      |                  |                |                      |                  | 17 549         |                      |                  | 1 239          |                      |
| Enteritis                           |                  |                |                      |                  |                |                      |                  |                |                      |                  | 911            |                      |
| Dermatitis                          |                  |                |                      |                  |                |                      |                  |                |                      | 5                | 40             |                      |
| Hepatitis                           |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Ketosis                             |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Lymphadenitis                       |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Mastitis                            |                  |                |                      |                  |                |                      |                  |                |                      | 1                | 8              |                      |
| Metritis                            | 4                | 48             |                      |                  |                |                      | 20               | 160            |                      | 7                | 56             |                      |
| Nephritis                           | 3                | 36             |                      | 7                | 56             |                      | 63               | 504            |                      | 7                | 56             |                      |
| Omphaloplebitis                     |                  |                |                      | 9                | 72             |                      |                  |                |                      |                  |                |                      |
| Pericarditis                        | 28               | 2 203          |                      | 1                | 8              |                      |                  | 3 689          |                      |                  | 1 624          |                      |
| Peritonitis                         | 91               | 1 252          |                      | 23               | 184            |                      | 56               | 448            |                      | 75               | 600            |                      |
| Pleuritis                           | 11               | 1 293          |                      | 1                | 29             |                      | 7                | 5 031          | 4 187                | 29               | 715            |                      |
| Pneumonia                           | 56               | 1 516          |                      | 43               | 775            |                      | 315              | 8 539          |                      | 95               | 1 097          |                      |
| Parasitic conditions                |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Cysticerosis                        | 96               | 30 960         |                      | 2                | 15             |                      | 9                | 72             |                      | 363              | 2 912          |                      |
| Fascioliasis                        |                  | 459            |                      |                  |                |                      |                  | 1 125          |                      |                  |                |                      |
| C. Tenuicollis Infection            |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Hydatidosis                         |                  |                |                      |                  |                |                      | 12               | 96             |                      |                  |                |                      |
| Milkspots                           |                  | 3 363          |                      |                  | 148            |                      |                  | 50 161         |                      |                  | 2 003          |                      |
| Lungworm                            |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Oesophagostomiasis                  |                  |                |                      |                  |                |                      |                  | 22 995         |                      |                  |                |                      |
| Sarcospordiosis                     | 71               | 852            |                      | 1                | 8              |                      | 1                | 8              | 18 500               |                  |                |                      |
| Stilesia Hepatic Infection          |                  |                |                      |                  |                |                      |                  |                | 125 791              |                  |                |                      |
| Septic conditions                   |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Abscesses                           |                  | 20 264         |                      |                  | 24             |                      | 2                |                |                      |                  | 54             | 26                   |
| Gangrene                            | 39               | 468            |                      |                  |                |                      | 3                | 40             |                      | 2                | 16             |                      |
| Pyaemia                             | 70               | 840            |                      | 65               | 520            |                      | 271              | 2 168          |                      | 112              | 896            |                      |
| Septicaemia                         | 1                | 12             |                      |                  |                |                      | 165              | 1 320          |                      | 9                | 72             |                      |
| Toxaemia                            |                  |                |                      |                  |                |                      |                  |                |                      | 1                | 8              |                      |
| Neoplasms                           |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Melanomata                          | 1                | 12             |                      |                  |                |                      |                  |                |                      | 2                | 16             |                      |
| Tumors (Others)                     | 1                | 12             |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Pigmentary conditions               |                  |                |                      |                  |                |                      |                  |                |                      |                  |                |                      |
| Xanthosis                           |                  |                |                      | 1                | 8              |                      |                  |                |                      |                  |                |                      |

## MILK SUPPLIES AND RELATED PRODUCTS

DR. D. DIXON — B.V.Sc., B.Sc. SENIOR VETERINARY OFFICER — MILK CONTROL BRANCH

### RAW MILK SUPPLIES

The City's milk shed comprises an area covering Wynberg, Bellville, Cape Town, Malmesbury, Hopefield and Vredenberg magisterial districts. A few isolated producers registered to supply milk to Cape Town are found near Wellington, Grabouw, Caledon and Stanford.

A total of 189 producers were registered at the end of 1973. Twelve producers went out of production and four new producers were registered.

Some 182 (96,3%) producers have one or more bulk tanks installed on their farms; a total of 256 of these tanks with a capacity of 584 293 litres are now in use. Two hundred and twenty-eight of these tanks are refrigerated by means of chilled water while the remainder are cooled by direct expansion. The five producers who still supply milk in cans, produced only 3 958 litres daily, 0,97% of the total production.

Sixty three producers (33%) have modern milking parlours and 117 (62%) make use of milking machines. Still more conventional cowsheds have been converted to accommodate a mechanical milk line system. The tandem-type milking parlour was favoured by 41,3% of the producers, followed by the herring-bone (38,1%) and the abreast-type (20,6%).

The average daily production per registered producer was 2 046 litres. An estimated 27 353 number of cows were in production at a time. Eighty-eight producers milked three times a day, the balance milking twice daily. (See graph).

Raw farm milk is collected by insulated road tankers and delivered for processing to the three pasteurising plants in or on the periphery of the city. From here the milk is distributed to milk shops and depots throughout the Peninsula for home delivery and sale over the counter. Supermarkets, tea rooms and general dealers are precluded from selling milk in ordinary glass bottles and only milk in non-returnable containers may be handled by them.

Since 1953 only heat treated milk may be offered for sale in Cape Town. Although the relevant regulations make an exception for the sale of raw milk produced by accredited disease free herds under stringent hygiene conditions, only one producer has qualified to sell a small quantity of raw cream.

A considerable quantity of milk and milk products, produced and processed under the control and supervision of this department, is also sold in the adjoining local authorities of the Peninsula.

The water supply of farm dairies remains satisfactory. 80,1% of all supplies are bore-hole origin, 16,8% is supplied by local authorities and the remaining 3,1% originated from spring and fountains.

Classification of registered producers on a daily production basis and related information.

| Period | No. of Registered Producers | Average Daily Production | Average Daily Intake at Cape Town |
|--------|-----------------------------|--------------------------|-----------------------------------|
| 1973   | 189                         | 2046                     | 352 585                           |
| 1972   | 197                         | 1788                     | 352 361                           |
| 1971   | 201                         | 1870                     | 375 908                           |
| 1970   | 208                         | 1619                     | 336 931                           |
| 1969   | 220                         | 1614                     | 355 166                           |

### ANIMAL DISEASES

Mastitis due to *Streptococcus agalactiae* was confirmed in 11,8% of unsatisfactory samples examined.

The Division of Veterinary Services of the Department of Agricultural Technical Services was actively engaged in a Tuberculosis Eradication Scheme for the Western Cape. A total of 685 infected dairy animals were slaughtered at the Maitland Abattoir under the scheme which provided for compensation to dairymen for any losses incurred.

In the City's milk shed there are 61 T.B. accredited herds averaging 68 822 litres of milk daily and 36 interim herds averaging 96 000 litres daily.

Brucellosis was diagnosed by means of the Stained Antigen ring test on raw milk samples. A survey showed that 61% of the herds registered milk producers either had the disease or were injudiciously using the Strain 19 Vaccine.

The recent incidence of Chlamydiosis amongst the livestock in the Western Cape is being investigated by the Division of Veterinary Services. It is not yet known to what extent this disease is involved in abortions in cows and deaths of newly born calves.

*Escherichia coli* infection in calves is prevalent, but successes have been achieved with the use of autogenous vaccines.

#### MILK AGGREGATE

According to the Milk Board the average daily production of fresh milk from registered producers was 352 585 litres of which 292 586 was absorbed by the fresh milk trade. The balance (59 999) was diverted for industrial use, including the manufacture of cheese, powdered milk, condensed milk and butter.

The Milk Board, a semi state organisation, controls the price of milk to producers. During the period under review new amendments were introduced and the Board presently pays a quality premium of 25 cents per litre of bulk milk provided that such milk as well as the bulk milk equipment conforms to all the prescribed conditions.

At times fresh milk was also supplied by Cape Town to Saldanha, Somerset West, Strand and George.

#### STAFF

The Milk Control Branch comprises the Senior Veterinary Officer, two full-time rural dairy inspectors and a full-time dairy/detailed inspector for City duty. A laboratory assistant is responsible for the testing of milk and milk products and the keeping of records. The inspectorate staff is guided to a large extent by these laboratory results.

During the year the following work was carried out:-

|   |       |
|---|-------|
| Total number of farm dairy inspections  | 2 227 |
| Number of farms where structural improvements were carried out                                | 190   |
| Number of herd inspections  | 173   |
| Investigations on farms in connection with the unsatisfactory bacteriological control of milk | 175   |
| Investigations on farms in connection with the incidence of mastitis                          | 91    |
| Recording of temperatures of mechanically cooled milk   | 691   |
| Number of unsatisfactory temperatures encountered   | 8     |
| Number of visits to pasteurising plants   | 1 151 |
| Number of visits to icecream plants   | 473   |

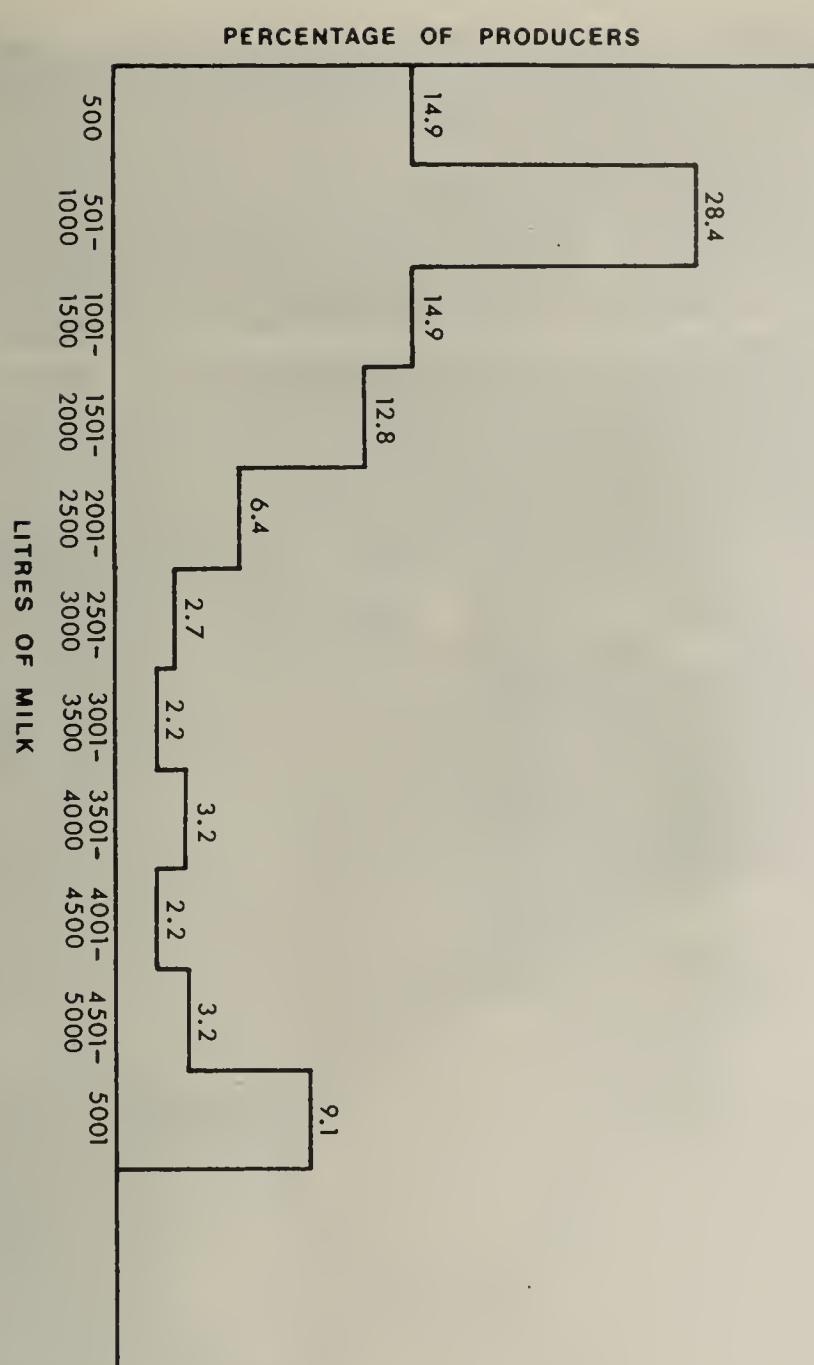
#### LABORATORY CONTROL

##### RAW MILK

Bulked herd milk and road tanker supplies were regularly sampled on farms and at receiving depots and tested with the following results:-

(a) Bulked Herd Milk (*Individual Producers Milk*)

| Test                     | No. of Samples Tested | % Satisfactory |
|--------------------------|-----------------------|----------------|
| Plate Count              | 928                   | 89,1           |
| <i>B. coli</i> (.001 ml) | 931                   | 61,3           |
| Inhibitory substances    | 147                   | 91,6           |
| Brucellosis (Ring test)  | 59                    | 39,0           |
| Mastitis                 | 931                   | 76,8           |







*Milk Testing in Departmental Laboratory*



## (b) Road Tanker Milk.

| Test                  | No. of Samples Tested | % Satisfactory |
|-----------------------|-----------------------|----------------|
| Plate Count           | 254                   | 90,2           |
| B. coli (.001 ml)     | 69                    | 58,0           |
| Inhibitory Substances | 130                   | 95,4           |
| Mastitis              | 254                   | 69,7           |

Wherever possible unsatisfactory results were followed up by visits and inspections and producers advised on remedial measures.

The hygienic cleaning and sterilisation of road tankers was regularly checked by visual inspection and bacteriological examination of swabs. A total of 109 swabs were thus examined of which thirteen proved to be unsatisfactory.

## PASTEURISED MILK

During the end of the period under review three pasteurising plants were licensed to process milk and cream and the various cultured milk products. No sterilised full cream milk was processed. A small factory manufactures flavoured skim milk using skim milk powder.

Two of the plants operate modern plastic blow moulding machines and 31,6% of the total amount of fresh milk handled was filled into litre and half litre plastic bottles. The outlet for this type of pack is mainly through the tea-rooms and supermarkets.

The temperature of pasteurised milk, immediately after processing, was checked on 180 occasions and all found to be satisfactory.

A litre or half litre bottle of milk was obtained from each plant every week day.

The following tests were carried out:-

| Test                        | No. of Samples | No. Unsatisfactory | % Satisfactory |
|-----------------------------|----------------|--------------------|----------------|
| Plate Count                 | 1 210          | 4                  | 99,7           |
| Phosphatase Test            | 1 245          | 7                  | 99,4           |
| B. Coli Count (Presumptive) | 1 207          | 338                | 72,0           |
| B. Coli Plate Count         | 1 207          | 96                 | 92,0           |
| E. Coli Type 1 (Faecal)     | 56             | 0                  | 100,0          |

One ml. of milk was plated onto violet red bile agar and an arbitrary count of more than 10 colonies was considered to be unsatisfactory.

Samples of milk for school feeding schemes were taken from time to time, and all proved to be satisfactory.

## PASTEURISED CREAM

This product was regularly sampled and submitted to the following tests.

| Test                  | No. of Tests | No. Unsatisfactory | % Satisfactory |
|-----------------------|--------------|--------------------|----------------|
| Plate Count           | 190          | 3                  | 98,4           |
| Phosphatase Test      | 198          | 1                  | 99,5           |
| B. Coli (Presumptive) | 195          | 79                 | 59,5           |
| B. Coli Plates        | 18           | 3                  | 83,3           |

Artificial cream, containing a vegetable fat was manufactured by two companies. Regular bacteriological tests on these products proved 92,1% satisfactory.

## ICE CREAM

Ice cream, sorbet, soft dairy mix and water ices were manufactured by six factories and one restaurant.

The production of ice cream remained more or less static, but sorbet and water ice production increased due to popular demand.

Any batches of ice cream introduced into the city from subsidiary or sister companies situated elsewhere had to be cleared bacteriologically by this Department before release for distribution and sale. Supplies were received from Boksburg and Port Elizabeth.

A modern ice cream factory is in the process of construction and will come into production in 1974.

The following tests on ice cream and related products were carried out:-

| Test                             | No. of Tests | No. Unsatisfactory | % Satisfactory |
|----------------------------------|--------------|--------------------|----------------|
| Plate Count                      | 649          | 49                 | 92,3           |
| Phosphatase Test                 | 332          | 0                  | 100,0          |
| E. Coli type 1 ( <i>Faecal</i> ) | 626          | 5                  | 99,2           |

Soft Dairy Mix, as dispensed by freezing machines in tea rooms and restaurants, were sampled and proprietors advised on the hygienic handling of the mix and the cleansing and sterilisation of these machines. A total of 172 samples were examined bacteriologically.

#### VI-TESTS

Vi-Tests were carried out on 313 individuals who were to be employed in milk and ice-cream factories. Nine of these were positive.

#### GENERAL:

1. Four final year veterinary students from Onderstepoort spent two weeks at the City Abattoir and in this branch as part of their vacational training in special hygiene and veterinary public health.
2. The present incumbent of the post Senior Veterinary Officer was appointed in September. The Assistant Abattoir Director having deputised for the rest of the period under review.

## AIR POLLUTION

B.D. OXLEY : AIR POLLUTION CONTROL OFFICER

Over four hundred premises are now registered as operating 670 fuel burning appliances. These registered premises fall within the scope of Part III of the Atmospheric Pollution Prevention Act No. 45 of 1965. There are other premises registered under Part II of the Act which are the responsibility of the Chief Air Pollution Control Officer, appointed by the Government and based in the Department of Health, Pretoria.

In addition, State premises and their numerous appliances do not fall under our jurisdiction.

Domestic houses, meaning dwellings housing a single family, are not yet controlled until Section 20 of the Act is invoked. If, however, complaint of smoke issuing from a dwelling is received and is considered to be a nuisance, then this Department is obliged to take action.

Among the registered appliances are many which were installed before the application of the Act to Cape Town, and unless they fail to meet the terms of the Act, we have no power bringing them up to date. An exception to this is if the premises change ownership or have to be licensed. The new licensing ordinance which came into force early in the year has enabled us to make sure that appliances meet current requirements.

Ninety-two premises were dealt with during the year either because new plant was installed or modified, or because they failed to meet the terms of the legislation regarding smoke. Many more premises were visited on a routine basis and inspections of the plant carried out.

The decision was taken to ban the use of fuels of more than 1% Sulphur content in the Central City area.

While the conversion of the Table Bay Power Station had proved to be a far more difficult undertaking than was envisaged, the resultant persistent plume had served to indicate to this Department the behaviour of air pollutants within the amphitheatre of the mountain under differing wind directions and strengths. A great deal was learned from this exercise.

The power station continued to receive much publicity because of the difficulties experienced in the conversion and the resultant smoke. These difficulties were mainly overcome and the City was left with a tolerable if not ideal situation. The promise of an advanced close-down date and reducing consumption of oil contributed to muting the clarion calls for a total shut-down.

All the boiler flues were concentrated into one chimney with corresponding benefit in dispersal because of higher plume velocity and temperature.

The appointment of a Smoke Control Officer to assist the Air Pollution Control Officer was made in July. The incumbent to this position was drawn from the ranks of Health Inspectors, having undertaken, in addition to the Diploma in Public Health, a course in Combustion Principles and Practice.

Due to this appointment, rapid progress was made towards Cape Town's 1st Smoke Control Zone Order – popularly known as a "Smokeless Zone". A report and recommendations were submitted to Council on schedule before the end of the year. Provided that Council, and the Minister of Health agree with the recommendations, the 1st Zone Order will come into effect on the 1 March, 1975, followed by further expansion of the Zone at regular intervals.

An International Air Pollution Conference was held in Pretoria in February which attracted over 650 delegates. Guest speakers included Mr. F. Ireland – Chief Alkali Inspector from U.K. and Dr. W. Strauss, University of Melbourne, Australia.

The National Association for Clean Air (N.A.C.A.) persuaded these two speakers to tour South Africa and give lectures. At the same time, a Western Cape Branch of N.A.C.A. was inaugurated in Cape Town.

This Branch is very active and quickly organised a Symposium in conjunction with the local Branch of the Institute of Mechanical Engineers. The impending fuel crises provoked a title for the symposium of "The Efficient Utilization of South African Solid Fuel Resources".

The Symposium, which took place in September, anticipated the Middle East October War which precipitated the fuel crisis.

As a result of this development, we expected that:-

- (1) The programme of dieselization/electrification of S.A.R. & H. locomotives and many other stationary appliances will be at least postponed, if not scrapped altogether.
- (2) Industry will contemplate and possibly carry out a return to coal for energy.
- (3) All State appliances will be re-converted to coal as primary fuel.
- (4) A proposal by the Cape Gas Company to use Naptha as feedstock for Town Gas will be re-considered.

The modifications to the Act – considered in 1972 – came to fruition in 1973 and Act No. 17 of that year was passed. Some of the machinery was streamlined and penalties were increased to a maximum of R500 or 6 months for a first offence and R2 000 or 12 months for second offence.

#### MEASUREMENT

The work begun towards the end of 1972 to restore all the standard measuring instruments to original specification, was completed early in the year. This fact, coupled with the improvements carried out at Table Bay Power Station, resulted in much lower readings being obtained.

Nevertheless, Council was concerned to have more detailed information on air pollutants and this Department was not prepared to recommend more sophisticated instrumentation or places to site them without a great deal more being known about the present position.

As a result, the Council for Scientific and Industrial Research (*C.S.I.R.*) was approached to conduct a comprehensive survey of the Peninsula. They indicated that they alone could not undertake a job of this magnitude and enlisted the aid of *U.C.T.* A report was submitted to Council with extensive proposals. It is hoped that this report will be given favourable consideration to enable this Department and the Chemical Branch of the City Engineer's Department, which is responsible for measurement of air pollutants, to initiate long-term plans for extension of the measuring system.

In the meantime, in order to increase knowledge, and also have a means of checking existing instruments, a portable continuous Sulphur Dioxide monitor was purchased. This instrument provides for the first time in Cape Town the degrees of peak levels and duration of peaks for Sulphur Dioxide. Thus far, the highest peak 1 000 microgrammes per cubic metre for a very short period, obtained when the instrument was sited directly in line with the Power Station plume.

#### GRAPHS

Monthly average readings for Sulphur Dioxide, Soiling Index and Dustfall are included in graphical form. The system was expanded by the addition of a measuring station in Tamboerskloof which started in May.

The Foreshore measuring station was not in service for the month of April due to the fact that the wayleave expired on the Goodyear building. An alternative site was found in Libertas building.

The total Dustfall readings for the month of July are not available since the soluble solids which contribute a fairly large percentage were not sampled.

It can be seen from the graphs that the SO<sub>2</sub> averages in the industrial areas are low, compared with the Foreshore and Green Point readings. It may well be that there is normally some wind in these areas and pollution tends to collect along the Foreshore. Nevertheless, this Department gains some satisfaction from the fact that in spite of expanding industrial activity, the situation is being controlled.

There remains, however, a difficult situation in Paarden Eiland as regards the Soiling Index and Dustfall readings. SO<sub>2</sub> in industrial areas is usually closely related to the Soiling Index figure, i.e. high Soiling Index – high SO<sub>2</sub>. In the case of Paarden Eiland this does not happen. The conclusion reached is that the sampling station is close to a foundry and is in line with the commonly prevailing wind.

Annual averages and graphs are also shown which indicate long term overall trends. The slope for SO<sub>2</sub> is reversed and now indicates overall reduction. Last year a few unexplained freak readings caused the annual average to be disproportionately high. This year's reading – lowest since before 1967 – restores the position.

The Soiling Index slope of the graph is not so steep compared with 1972; 1973 being more like the normal Cape Summer with plenty of wind. 1971 and 1972 were relatively quiet summers and consequently stagnant conditions were more prevalent than usual, resulting in higher than normal annual averages.

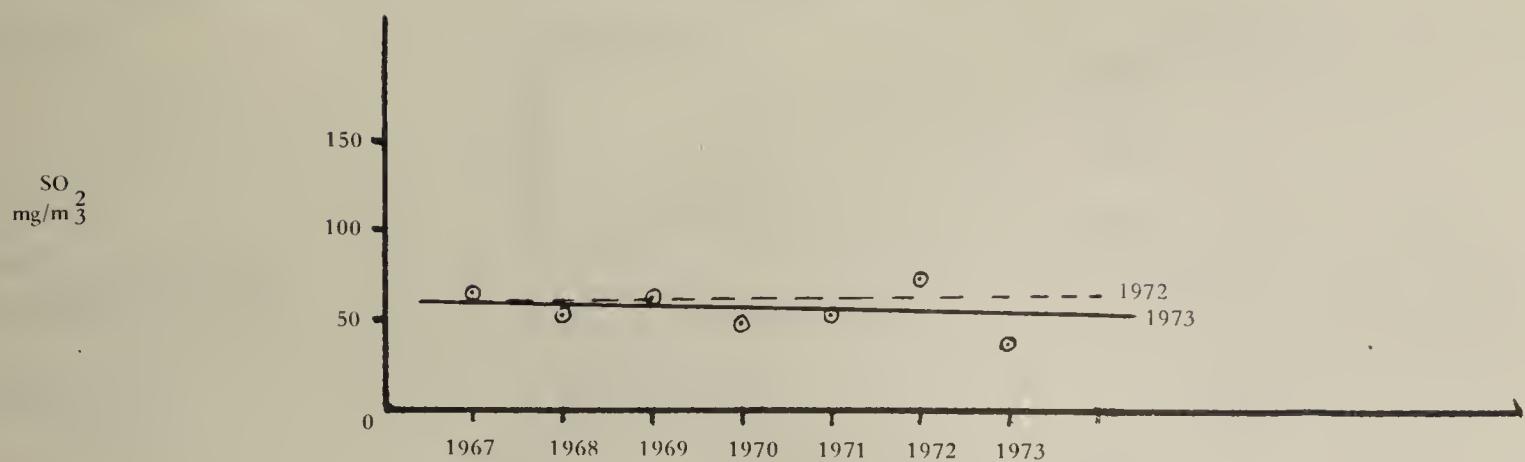
Dustfall averages maintain the gradual downward slope.

#### TOTAL NUMBER OF PEAK READINGS FOR TWO AND THREE-DAY AVERAGES FOR SULPHUR DIOXIDE IN MICROGRAMMES PER CUBIC METRE

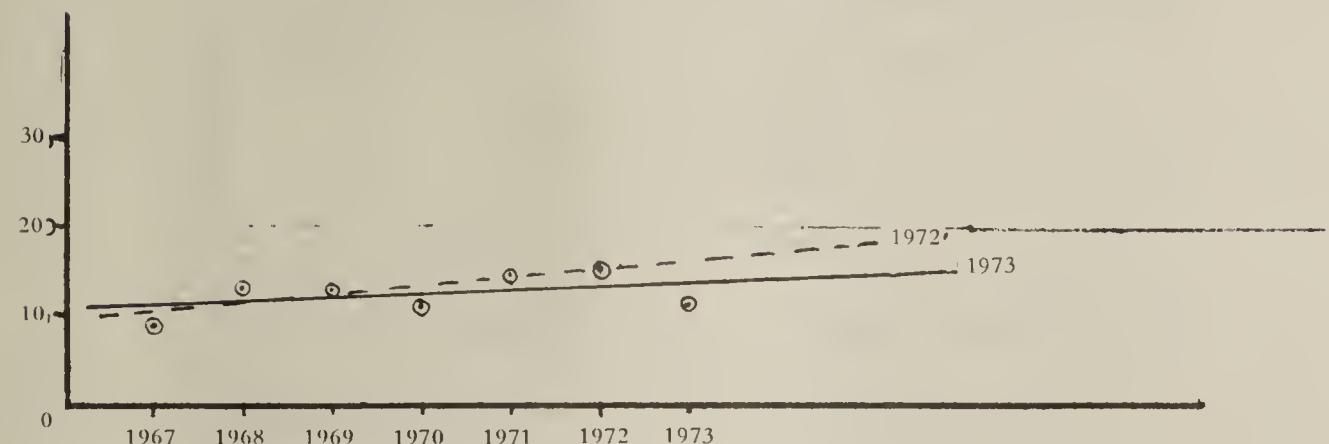
| SO <sub>2</sub> ug/m <sup>3</sup> | 100–150 | 150–200 | 200–250 | 250–300 | 300–350 | Over 350 |
|-----------------------------------|---------|---------|---------|---------|---------|----------|
| 1969                              | 91      | 18      | 7       |         | 1       |          |
| 1970 six stations                 | 65      | 14      | 4       | 2       | 1       |          |
| 1971                              | 65      | 15      | 3       | 1       | 1       |          |
| 1972 7 stations                   | 103     | 62      | 21      | 3       | 2       | 2        |
| 1973 from May                     | 48      | 14      |         |         |         |          |

The incidence of high peak averages was considerably reduced during 1973.

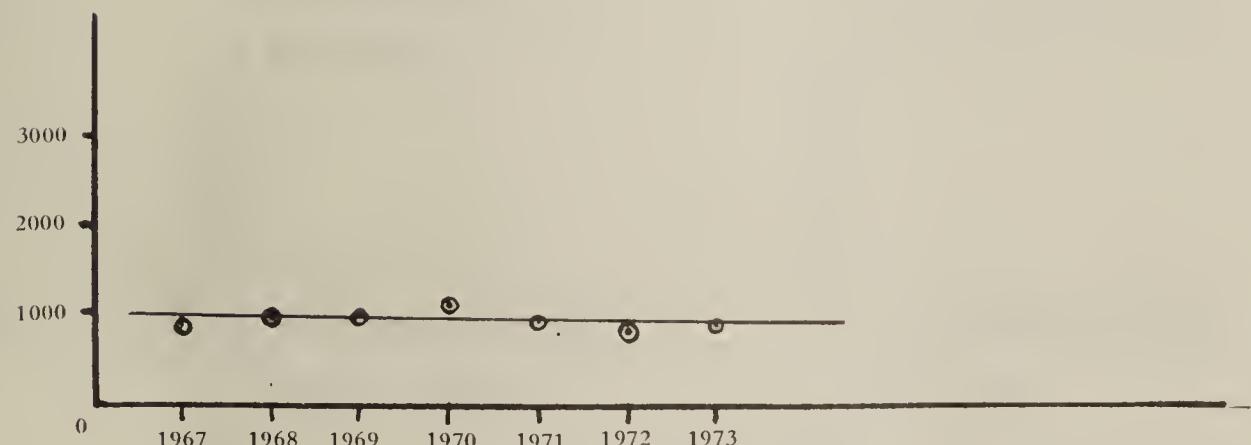
ANNUAL AVERAGES FOR THE PERIOD 1967 - 1973  
OF THE THREE POLLUTANTS MEASURED



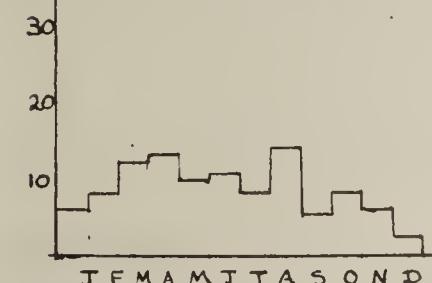
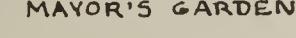
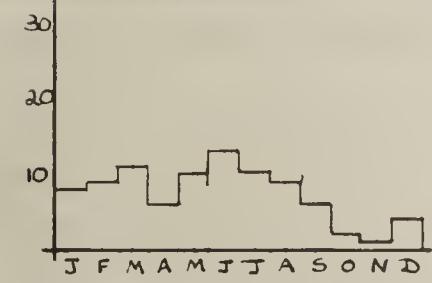
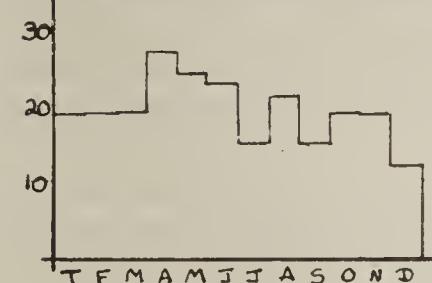
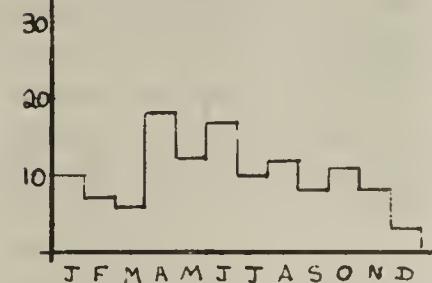
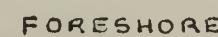
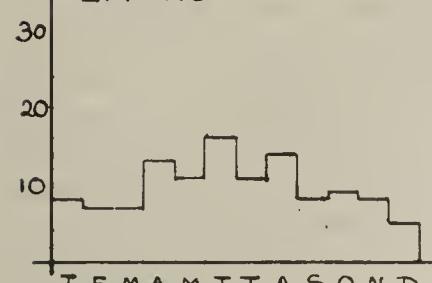
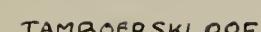
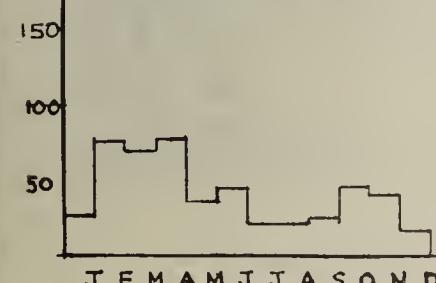
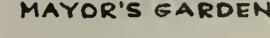
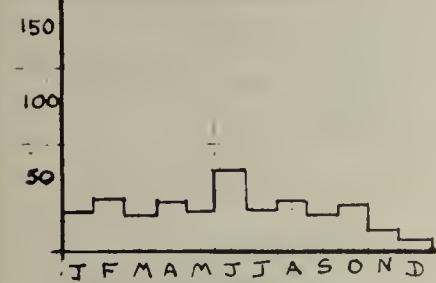
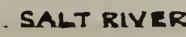
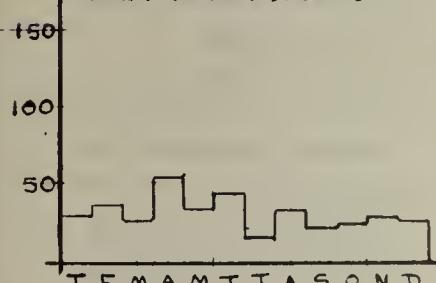
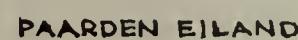
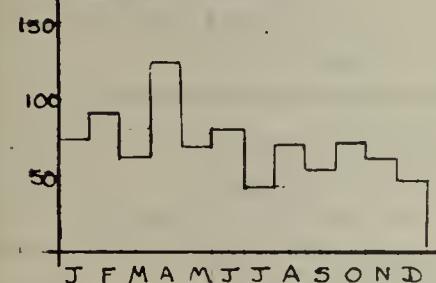
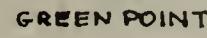
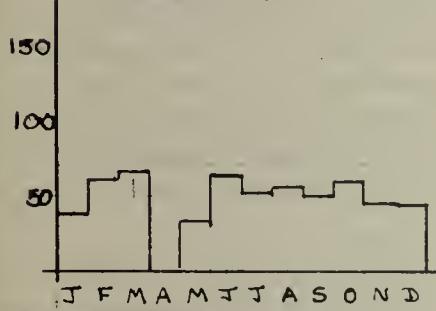
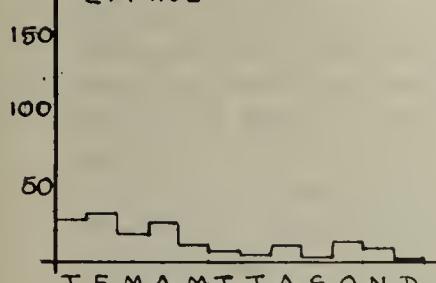
SOILING INDEX



DUSTFALL  
 $\text{g}/\text{decam}^2$







S0<sub>2</sub>

## SOILING INDEX

# DUSTFALL

## 1973 MONTHLY AVERAGES



## HOUSING

The greater part of the Cape Town municipality consists of houses built of masonry according to the standards of the time of their erection, served by the municipal water supply and water-carriage sewerage, and with well-constructed streets. Most of the dwellings are separate houses built for one family each, detached, semi-detached or in terraces. Private enterprise is today making little or no provision for the housing of the lower income groups owing to the high building costs of erecting such dwellings and have concentrated on the erection of large blocks of flats. Such flat development is taking place all over the municipality, but far and away the most popular suburbs for such development are the Sea Point, Three Anchor Bay, Green Point and the Kenilworth areas. There is a decided danger in the overcrowding of any one area with large flat blocks owing to the danger of ultimate deterioration of both building and inmates and the possibility of slum conditions eventually developing.

If the houses were occupied in the manner originally intended, housing conditions would be mainly satisfactory. The chief factor responsible for slum conditions is the overcrowding caused by the fact that there are not enough houses for the population, itself the result of economic conditions. Houses suitable for one family and in many cases small even for one large family, are occupied by several families, sometimes to the extent of one family per room. The over-crowded families are naturally mostly from the poorest strata of society, usually (*though not invariably*) non-White, and often of low social standard. The resulting squalor is increased by decay of the fabric of the houses which such occupation induces.

The same shortage of houses and economic stringency is largely responsible for the other phase of the local housing problem, viz, the occupation of unauthorised and insanitary structures on the Cape Flats fringing Cape Town, often without made roads, water supply or sanitary services and sometimes subject to winter flooding. The Council has ample powers to prohibit such building and occupation, but has not found itself prepared to eject the occupants from the only shelter available to them.

There remains also the lowest sub-sub-economic group of the population who are a social welfare problem and cannot be provided for through municipal housing.

These housing conditions are of long standing, and have been the subject of repeated consideration by the Council, its committees and officers. Since 1920 up to 1973 the City Council, Citizens' Housing League Utility Company, Cafda, the Servitas Organisation and Garden Cities have completed the erection of over 38 000 dwellings within the municipality.

The Council is erecting houses departmentally as well as by contract. The building units function with artisans recruited from the building industry and working under conditions of service applicable to that industry. Coloured housing is based on standard plans evolved by the National Housing Commission.

With the enforcement of the Group Areas Act and the displacement of racial groups from one area to another it is very necessary that additional housing for the non-White section be constructed each year. It is difficult to formulate any figure but it is estimated that at least 4 000 units alone must be erected so as to make any impression on the present overcrowding that exists.

In the preparation of the new Manenberg scheme (*an extension of Heideveld*), the Council was originally faced with a demand for a 100 per cent allocation of the houses for State population regrouping purposes. To minimise urban sprawl, it had been anticipated that high density flat construction would be utilised in areas such as 'District Six', but the Council has had to abandon that scheme and is now faced with the problem of providing such accommodation elsewhere in the city.

Cape Town's topography has been the reason for siting the major Municipal housing schemes at Athlone, about eight miles from the City centre.

The dwellings completed by the City Council in the year under review were as follows:—

|                             | Economic | No. of houses | Sub-economic |
|-----------------------------|----------|---------------|--------------|
| Hanover Park                | 76       |               | 12           |
| Lavender Hill               | 887      |               | 248          |
| Retreat                     |          |               | 6            |
| Bridgetown                  | 2        |               |              |
| Malay Area<br>(Restoration) | 11       |               |              |
| Home Ownership              |          | 19            |              |

This represents a total of 1 261 dwellings.

In addition one block of 12 flatlets at Wynberg was constructed by the Citizens' Housing League.

## CONVERSIONS

During the year 72 dwellings (*for non-Whites*) were converted from sub-economic to economic lettings. These conversions became necessary due to the general increase in wages.

The dwellings completed bring the figures from 1920 to 1973 for public housing operations in Cape Town and suburbs (*exclusive of Bantu Townships*) to the following:—

|                                  | White | Non-White | Total  |
|----------------------------------|-------|-----------|--------|
| Within Cape Town municipal area: |       |           |        |
| City Council                     | 1 236 | 35 400 *  | 36 636 |
| Citizens' Housing League         | 1 162 | 28        | 1 190  |
| Utility Co.                      |       | 336       | 336    |
| Cafda                            | 84    |           | 84     |
| Servitas Organisation            | 30    | 403       | 433    |
| Garden Cities                    |       |           |        |
| TOTAL                            | 2 512 | 36 167    | 38 679 |

\* Excluding Langa and Guguletu Townships.

The number of new dwelling houses built during the year in the Municipality as compared with the growth of population is shown in the following table:—

| Year | Estimated increase in population | Buildings for human habitation completed (dwellings) |
|------|----------------------------------|--|
| 1945 | 10 400                           | 870  |
| 1955 | 7 030                            | 2 155  |
| 1960 | 7 940                            | 1 817  |
| 1965 | 14 210                           | 3 186  |
| 1970 | 11 600                           | 2 635  |
| 1973 | 18 320                           | 1 273  |

## BANTU HOUSING

No dwellings were erected in Guguletu during the year.

The following further information furnished by the Director of Housing is of interest:—

## RENTED DWELLINGS

1 231 dwellings were completed for Coloured families during 1973, 965 being economic and 266 sub-economic. This total was 949 less than that of 1972. Building took place in Hanover Park, which was completed, and in Lavender Hill. A further 11 dwellings were restored in the Malay restoration area.

During the year 19 dwellings were built in Ottery for White families.

## APPLICATIONS

During 1973, 2 174 applications were received from Coloured families who qualified to have their names placed on the waiting list and 86 from Whites.

Of the 11 145 total Coloured applicants, 82% require economic rented accommodation but only 70% of the 697 White applicants require this.

## ALLOCATIONS

A total of 1 722 Coloured families from the waiting list were housed during the year — 700 in new dwellings and 1 022 in vacancies. In addition to this, 605 families were resettled by the Department of Community Development, 106 being from the Council's housing estate in Diep River which will be converted for White occupation.

62 families were transferred to new dwellings and 584 to vacancies.

## HOME-OWNERSHIP DWELLINGS

296 new dwellings were constructed for Coloured families in 1973; 162 in Mountview and 91 in Primrose Park. No new dwellings were built for Whites.

50% of these dwellings were allocated to the Department of Community Development for Group Areas resettlement.

## COMMUNITY CENTRES

Two new Community Centres were constructed in 1973, one in Silvertown and one in Hanover Park.

The number of persons using these Community Centres continues to increase.

## SECTION X - OTHER SERVICES

### DOMICILIARY MEDICAL SERVICES

The City Council provides medical attention in their homes for indigent sick persons needing such service. During 1973 the work was carried out by medical practitioners with the co-operation of the District Nursing Organisation of the Cape Provincial Administration. Arrangements for the supply of medicines etc. are made with local chemists.

In addition, applications are received from persons seeking assistance to purchase spectacles under poor relief regulations.

One half of the cost of medical attention and the full cost of surgical appliances and spectacles are refunded to the Council by the State.

During the year, 131 applications for free medical attention and 3 007 applications for spectacles were received — the latter have increased considerably in recent years and the sum of R16 774,64 was collected towards the cost to the Council of R73 150,50.

### HYDROGEN CYANIDE FUMIGATION

Under the Hydrogen Cyanide Fumigation Regulations (*Government Notice Nos. 804 of 30 April, 1943 and 605 of 13 April, 1945*), no person may undertake the fumigation of any 'building or premises' with hydrogen cyanide unless he has obtained a certificate of competence from the State Health Service or a "First Schedule" local authority. Certificates granted by local authorities are subject to confirmation and counter-signature by the Secretary for Health. A certificate may not be issued unless the candidate worked for 12 months as a fumigator prior to 30 April, 1943, or has worked for six months under a certified fumigator.

In August, 1943, the Medical Officer of Health, Cape Town, was requested and authorised by the Secretary for Health to undertake the examination and certification (*subject to the prescribed confirmation*), of candidates from areas outside Cape Town not under 'First Schedule' authorities.

No certificates were issued during 1973.

### FREE BURIALS

The Public Health Act places upon the local authority the responsibility for the removal and burial of the body of any destitute person, or any dead body which is unclaimed or of which no responsible person undertakes the burial. The cost falls upon the local authority, although it may be legally recovered. Each year a contract is given out to an undertaker to carry out this work for the council. In the year the number of such burials was 291.

### BOARD OF AID

This establishment was closed down on 1 July.

Particulars relating to the first half of the year were not available.

### DRAINAGE, SEWERAGE AND SCAVENGING STORMWATER DRAINAGE

A great part of the Municipality, being built on the slopes at the foot of the mountain, is well sited for drainage but in parts of the Cape Flats natural drainage scarcely exists and in the wet season the ground-water level over a considerable area rises to or very near the surface.

The city is sewered on the separate system, the stormwater being conducted by separate channels to the nearest outfall namely the sea, or into the Liesbeek and Black Rivers, which drain the southern suburbs north of Kenilworth and flow into Table Bay as the Salt River. South of Kenilworth the streams run south and discharge into a series of vleis or lakes and thence to the sea at Table Bay.

It is the policy of the City Council to concrete line the banks and invert of natural water courses in its area when required by hydraulic or planning considerations.

The Vy gekraal River upstream of Vanguard Drive has been widened and deepened and the lining of this section of the river has been taken as far as Sherwood Park on the boundary of the Municipal Area.

### SEWERAGE

With the exception of outlying sparsely developed areas the greater part of the Municipality is provided with water-borne sewerage facilities.

The Council in terms of an agreement with the Cape Divisional Council accepts and treats sewage from Goodwood, Parow and the Divisional Council Local Area of Epping Garden Village. Similarly, the Council accepts and treats sewage from Pinelands and from such portions of the Divisional Council Local Area of Grassy Park as are presently sewered; sewage from the Constantia Local Area will be accepted in 1974.

The Council has negotiated an agreement with Milnerton to discharge sewage northwards to link up with their sewage treatment work and, as an interim measure, portion of the Sanddrift Housing Scheme is discharged into Milnerton sewer reticulation.

Council on 31 July 1973 adopted a policy of separation of industrial from domestic effluents so far as practicable to supplement and assist future efforts in the reclamation and re-use of sewage effluents; it has authorised the expenditure of R21 000 000 for a new treatment plant at the Cape Flats and improvements and additions to the Athlone Treatment Works.

The area from Woodstock to Bakoven is sewered and the sewage discharged to sea in two outfalls (*Green Point and Camps Bay*) after maceration; chlorination is used, in addition, at Camps Bay.

#### PAIL CLOSETS

Regular removals of night soil were effected from all premises requiring such service in unsewered areas. Pail contents are disposed of by discharging into the sewerage system through the intake at Muizenberg. 254 803 pail clearances were affected. Similarly 24 523 removals were made from O'Brien dry earth closets in the municipal and certain abutting areas.

#### HOUSE REFUSE REMOVALS

The removal of house refuse is carried out by the Cleansing Branch of the City Engineer's Department as follows:—

Every Week-day:

Cape Town Central Business district:—  
Gardens, Vredehoek, Oranjezicht, Tamboerskloof, Devils Peak,  
Hotels, Restaurants, Boarding Houses and certain flats and  
business premises in congested areas.

Three Times Weekly:

Camps Bay, Sea Point, Green Point, portion of Oranjezicht,  
Tamboerskloof, Woodstock, Salt River, Observatory, Brooklyn,  
Maitland, Kensington, Mowbray, Rosebank, Rondebosch, Upper  
Newlands and Upper Claremont and Bishopscourt.

Twice Weekly:

Lower Claremont, Lower Newlands, Kenilworth, Wynberg, Plumstead,  
Retreat, Lakeside, Bergvliet, Athlone and Lansdowne, Bonteheuwel,  
Manenberg, Hanover Park and Parkwood Estate.

Sundays:

On Sundays a special payments removal is effected at Hotels,  
Restuarants and Boarding Houses.

#### DISPOSAL OF REFUSE

All refuse, both trades and household, is disposed at the Council's tip at Guguletu. Strict control of the tip by the adoption of sanitary control methods is adhered to.

The Compost Plant at Athlone receives the refuse from the Athlone and Mowbray areas.

During the year the quantity of refuse removed was 685 030 cubic meters (*896 025 cubic yards*).

In all areas house refuse is disposed of by controlled tipping.

As the available areas for controlled tipping of refuse are steadily diminishing or suitable areas are so far away that transport costs become prohibitive, the City Council decided to investigate the suitability of composting all household refuse. With this in view, the construction of a pilot composting plant in the Athlone Sewage Disposal Works area came into operation in May, 1969. The compost from the plant is now on sale to the public and Agricultural Organisations.

## SECTION XI – STAFF OF CITY HEALTH DEPARTMENT

The authorised establishment of the City Health Department as at 31 December, 1973, amounting to 1 411 staff members is subdivided as follows:—

### SOME VACANT POSTS EXIST THROUGHOUT THE DEPARTMENT

| <i>ADMINISTRATIVE BRANCH</i>               | <i>NO.</i> | <i>NO.</i>                                 |
|--|------------|--|
| Medical Officer of Health                  | 1          | Chief Public Health Nurse                  |
| Deputy Medical Officer of Health           | 1          | 1  |
| Assistant Medical Officer of Health        | 1          | Clinic Sister/Health Visitors              |
| Medical Officer                            | 1          | 97   |
| Administrative Officer                     | 1          | Senior Public Health Nurses                |
| Assistant Administrative Officer           | 1          | 4  |
| Principal Administrative Officer           | 1          | Learner Public Health Nurses               |
| Senior Administrative Assistants           | 4          | 12   |
| Personal Assistant to M.O.H.               | 1          | Senior Social Welfare Visitor              |
| Air Pollution Control Officer              | 1          | 1  |
| Health Education Officer                   | 1          | Supervisor Family Planning Training Centre |
| Health Education Lecturer                  | 1          | 1  |
| Senior Clerks                              | 6          | Nursing Assistant                          |
| Clerks                                     | 12         | 10   |
| Senior Shorthand Typist                    | 1          | Senior Clerk                               |
| Shorthand Typist                           | 1          | 1  |
| Woman Assistants                           | 5          | Clerks                                     |
| Office Attendants                          | 3          | Nursery School Supervisor                  |
| Caretaker/Cleaner                          | 1          | 1  |
| Labourer                                   | 1          | Nursery School Teachers                    |
|  | <hr/>      | <hr/>                                      |
| Total                                      | 45         | Junior Nursery School Teachers             |
|  |            | 4  |
|  |            | Chiropodist                                |
|  |            | 1  |
|  |            | Senior Woman Assistant                     |
|  |            | 1  |
|  |            | Woman Assistants                           |
|  |            | 5  |
|  |            | Creche Superintendents                     |
|  |            | 7  |
|  |            | Nursery Assistants                         |
|  |            | 13   |
|  |            | Clinic Assistants                          |
|  |            | 25   |
|  |            | Laundresses                                |
|  |            | 10   |
|  |            | Domestics                                  |
|  |            | 41   |
|  |            | Cooking Hands                              |
|  |            | 20   |
|  |            | Children's Help                            |
|  |            | 14   |
|  |            | Drivers                                    |
|  |            | 6  |
|  |            | Labourers                                  |
|  |            | 4  |
|  |            | Night Watchmen                             |
|  |            | 2  |
|  |            | Caretaker                                  |
|  |            | 1  |
|  |            | Caretaker/Cleaner (Coloured)               |
|  |            | 1  |
|  |            | <hr/>                                      |
|  |            | Total                                      |
|  |            | 296  |
|  |            |  |
| <i>HEALTH INSPECTION BRANCH</i>            |            |  |
| Chief Health Inspector                     | 1          | <i>TUBERCULOSIS BRANCH</i>                 |
| Senior Assistant Chief Health Inspector    | 1          | Tuberculosis Officer                       |
| Assistant Chief Health Inspector           | 1          | 1  |
| Divisional Health Inspectors               | 5          | Deputy Tuberculosis Officer                |
| Health Inspectors                          | 43         | 1  |
| Learner Health Inspectors                  | 8          | Clinic Medical Officers                    |
| Smoke Control Inspector                    | 1          | 2  |
| Pest Control Officers                      | 4          | Senior Administrative Assistant            |
| Clerks                                     | 2          | 1  |
| Woman Assistants                           | 2          | Senior Clerk                               |
| Washhouse Caretaker/Fitter                 | 1          | 1  |
| Washhouse Caretaker                        | 3          | Clerks                                     |
| Assistant Washhouse Caretakers             | 3          | 5  |
| Motor Driver                               | 1          | Senior Public Health Nurse                 |
| Stores Yardsman                            | 1          | 1  |
| Pest Control Operatives                    | 26         | Clinic Sister/Public Health Nurses         |
| Labourers                                  | 5          | 14   |
| Attendants at public sanitary conveniences | 154        | Clinic Assistants                          |
|  | <hr/>      | 5  |
| Total                                      | 262        | Radiographer                               |
|  |            | 3  |
|  |            | Woman Assistants                           |
|  |            | 5  |
|  |            | Domestics                                  |
|  |            | 1  |
|  |            | Driver Mobile X Ray Van                    |
|  |            | 2  |
|  |            | Caretaker/Cleaner                          |
|  |            | 7  |
|  |            | Labourers                                  |
|  |            | 4  |
|  |            | <hr/>                                      |
|  |            | Total                                      |
|  |            | 53   |
|  |            |  |
| <i>MILK CONTROL</i>                        |            |  |
| Senior Veterinary Officer                  | 1          | <i>VENEREAL DISEASE BRANCH</i>             |
| Dairy Inspectors                           | 3          | Venereal Disease Officer                   |
| Laboratory Technician                      | 1          | 1  |
|  | <hr/>      | Clinical Medical Officer                   |
| Total                                      | 5          | 1  |
|  |            | Male Nurses                                |
|  |            | 2  |
|  |            | Clinic Sister/Public Health Nurse          |
|  |            | 2  |
|  |            | Labourers                                  |
|  |            | 2  |
|  |            | <hr/>                                      |
|  |            | Total                                      |
|  |            | 8  |
|  |            |  |
| <i>MATERNAL AND CHILD WELFARE BRANCH</i>   |            |  |
| Maternal and Child Welfare Officer         | 1          |  |
| Deputy Maternal and Child Welfare Officer  | 1          |  |
| Clinical Medical Officers                  | 3          |  |

| DENTAL BRANCH             | NO. | NO.                         |     |
|---------------------------|-----|-----------------------------|-----|
| Principal Dental Officer  | 1   | Brush Hand                  | 3   |
| Deputy Dental Officer     | 1   | Housekeeper                 | 1   |
| Assistant Dental Surgeon  | 2   | Housemaids                  | 36  |
| Senior Dental Mechanic    | 1   | Seamstresses                | 4   |
| Dental Mechanics          | 4   | Kitchen Supervisor          | 4   |
| Senior Clinic Nurse       | 1   | Hospital Cooks              | 7   |
| Dental Nurses             | 7   | Disinfection Officer        | 1   |
| Senior Clerk              | 1   | Ambulance Officer           | 1   |
| Clerks                    | 2   | Ambulance and Motor Drivers | 4   |
| Female Clerical Assistant | 1   | Telephone Operators         | 3   |
| Social Welfare Visitor    | 1   | Senior Hospital Porter      | 1   |
| Clinic Assistants         | 5   | Hospital Porters            | 5   |
| Laundresses               | 4   | Bantu Male Orderlies        | 64  |
| Domestic                  | 1   | Labourers                   | 12  |
| Caretaker/Cleaner         | 1   |                             |     |
| Labourer                  | 1   |                             |     |
| Total                     | 34  | Total                       | 397 |

| BROOKLYN CHEST HOSPITAL               |     |                              |     |
|---------------------------------------|-----|------------------------------|-----|
| CITY HOSPITAL FOR INFECTIOUS DISEASES |     |                              |     |
| Medical Superintendent                | 1   | Medical Superintendent       | 1   |
| Deputy Medical Superintendent         | 1   | Resident Medical Officers    | 5   |
| Resident Medical Officers             | 6   | Matron                       | 1   |
| Matron                                | 1   | Assistant Matron             | 1   |
| Assistant Matrons                     | 2   | Sisters                      | 36  |
| Sisters                               | 44  | Staff Nurses                 | 3   |
| Nursing Assistants                    | 136 | Nursing Assistants           | 102 |
| Enrolled Nurses                       | 36  | Radiographer                 | 1   |
| Radiographer                          | 1   | Clinic Assistants            | 2   |
| Occupational Therapist                | 1   | Lady Warden                  | 1   |
| Principal Pharmacist                  | 1   | Senior Clerk                 | 1   |
| Pharmacist                            | 2   | Clerks                       | 1   |
| Lady Wardens                          | 2   | Woman Assistant              | 1   |
| Physiotherapist                       | 1   | Housekeeper                  | 1   |
| Senior Clerk                          | 1   | Storekeeper                  | 1   |
| Clerks                                | 2   | Head Seamstress              | 1   |
| Storekeeper                           | 2   | Seamstress                   | 1   |
| Senior Woman Assistant                | 1   | Laundry Manager              | 1   |
| Woman Assistant                       | 1   | Laundry Supervisor           | 1   |
| Senior Works Foreman                  | 1   | Assistant Laundry Supervisor | 1   |
| Artisans                              | 2   | Laundresses                  | 31  |
| Handyman                              | 1   | Kitchen Supervisors          | 2   |
| Craft Worker                          | 1   | Hospital Cooks               | 4   |
| Works Storeman                        | 1   | Senior Works Foreman         | 1   |
| Painter                               | 1   | Carpenter                    | 1   |
| Boiler Attendants                     | 2   | Handyman                     | 3   |
|                                       |     | Fitter                       | 1   |
|                                       |     | Craft Worker                 | 2   |
|                                       |     | Boiler Attendants            | 3   |
|                                       |     | Telephone Operators          | 3   |
|                                       |     | Motor Drivers                | 2   |
|                                       |     | Hospital Porters             | 5   |
|                                       |     | Male Orderlies               | 71  |
|                                       |     | Labourers                    | 19  |
| Total                                 | 311 |                              |     |

## CHANGES IN PERSONNEL

## APPOINTMENTS

|                     |  |          |
|---------------------|--|----------|
| Dr. T.J. Malherbe   | Medical Superintendent City Hospital           | 19. 3.73 |
| Dr. M.E.E. Popkiss  | Medical Superintendent Brooklyn Chest Hospital | 13. 6.73 |
| Dr. R.A. Spiro      | Tuberculosis Officer                           | 17. 7.73 |
| Dr. M.A. Chaimowitz | Assistant Medical Officer of Health            | 1. 8.73  |
| Dr. L.B. Blumenthal | Deputy Tuberculosis Officer                    | 12.10.73 |

## RETIREMENTS

|                   |                      |          |
|-------------------|----------------------|----------|
| Dr. H.L. Ackerman | Tuberculosis Officer | 16. 7.73 |
|-------------------|----------------------|----------|

TABLE A Causes of Death Registered in 1973.

W. - White  
(Corrected) O. - Other or Non-Whites.

| CAUSE OF DEATH  | AGE GROUPS   |     |     |    |     |     |               |     |     |    |       |     |       |     |       |     |       |     | Non-Resident cases (Excluded from main table) |     |       |     |       |     |       |     |                |      |        |     |  |     |     |      |     |
|---|--------------|-----|-----|----|-----|-----|---------------|-----|-----|----|-------|-----|-------|-----|-------|-----|-------|-----|---|-----|-------|-----|-------|-----|-------|-----|----------------|------|--------|-----|--|-----|-----|------|-----|
|   | Under 1 year |     | 1-2 |    | 2-4 |     | Total under 5 |     | 5-9 |    | 10-14 |     | 15-24 |     | 25-34 |     | 35-44 |     | 45-54   |     | 55-64 |     | 65-74 |     | 75-84 |     | 85 and upwards |      | TOTALS |     | Bantu Townships (included in Main Table) |     |     |      |     |
|   | M.           | F.  | M.  | F. | M.  | F.  | M.            | F.  | M.  | F. | M.    | F.  | M.    | F.  | M.    | F.  | M.    | F.  | M.  | F.  | M.    | F.  | M.    | F.  | M.    | F.  | M.             | F.   |        |     |  |     |     |      |     |
| I. Infective and parasitic diseases   | W. 30        | 2   | 30  | 14 | 13  | 8   | 10            | 52  | 53  | 3  | 4     | 1   | 1     | 8   | 6     | 9   | 5     | 40  | 11  | 1   | 1     | 29  | 7     | 22  | 6     | 5   | 2              | 7    | 9      | 7   |  |     |     |      |     |
| II. Neoplasms   | O. W.        | 1   | 1   | 1  | 3   | 1   | 1             | 2   | 1   | 2  | 1     | 1   | 3     | 1   | 2     | 1   | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 1    | 53     |     |  |     |     |      |     |
| III. Allergic, endocrine system, metabolic, and nutritional diseases.                           | O. W.        | 8   | 7   | 11 | 8   | 2   | 2             | 21  | 17  | 1  | 2     | 1   | 1     | 5   | 2     | 3   | 1     | 5   | 14  | 13  | 20    | 28  | 7     | 23  | 4     | 7   | 18             | 57   |        |     |  |     |     |      |     |
| IV. Diseases of the blood & bloodforming organs   | O. W.        | 2   | 1   | 1  | 2   | 1   | 2             | 2   | 1   | 2  | 1     | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 1    | 71     |     |  |     |     |      |     |
| V. Mental, psychoneurotic & personality disorders   | O. W.        | 3   | 2   | 2  | 2   | 2   | 2             | 3   | 2   | 4  | 4     | 4   | 1     | 1   | 2     | 1   | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 1    | 4      |     |  |     |     |      |     |
| VI. Diseases of the nervous system & sense organs   | O. W.        | 16  | 19  | 4  | 2   | 2   | 2             | 22  | 23  | 2  | 4     | 4   | 4     | 8   | 5     | 14  | 7     | 28  | 16  | 4   | 35    | 16  | 43    | 55  | 30    | 64  | 18             | 29   |        |     |  |     |     |      |     |
| VII. Diseases of the circulatory system   | O. W.        | 1   | 1   | 5  | 3   | 1   | 9             | 5   | 1   | 1  | 1     | 3   | 1     | 3   | 6     | 3   | 17    | 12  | 53  | 25  | 76    | 51  | 68    | 21  | 33    | 10  | 61             |      |        |     |  |     |     |      |     |
| VIII. Diseases of the respiratory system (not specified as tuberculoses)                        | O. W.        | 4   | 2   | 1  | 2   | 1   | 1             | 1   | 1   | 1  | 1     | 3   | 1     | 1   | 1     | 1   | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 49   |        |     |  |     |     |      |     |
| IX. Diseases of the digestive system  | O. W.        | 76  | 77  | 21 | 16  | 4   | 10            | 101 | 103 | 1  | 5     | 3   | 1     | 1   | 1     | 1   | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 1    | 49     |     |  |     |     |      |     |
| X. Diseases of the genito-urinary system & complications of pregnancy, childbirth & puerperium. | O. W.        | 108 | 96  | 34 | 20  | 7   | 8             | 149 | 124 | 6  | 1     | 2   | 1     | 1   | 1     | 1   | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 1    | 50     |     |  |     |     |      |     |
| XI. Diseases of the skin & cellular tissue  | O. W.        | 1   | 1   | 1  | 1   | 1   | 1             | 1   | 1   | 1  | 1     | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 1    | 1      | 1   |  |     |     |      |     |
| XII. Diseases of the bones & organs of movement   | O. W.        | 9   | 1   | 1  | 1   | 5   | 9             | 1   | 23  | 23 | 1     | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 1    | 1      | 1   |  |     |     |      |     |
| XIV. Congenital malformations   | O. W.        | 22  | 17  | 10 | 1   | 1   | 1             | 160 | 138 | 10 | 1     | 1   | 1     | 160 | 138   | 10  | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 1    | 1      | 7   |  |     |     |      |     |
| XV. Certain diseases of early infancy   | O. W.        | 160 | 137 | 1  | 1   | 1   | 1             | 1   | 1   | 1  | 1     | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1   | 1   | 1     | 1   | 1     | 1   | 1     | 1   | 1              | 1    | 1      | 9   |  |     |     |      |     |
| XVI. Symptoms, senility & ill-defined conditions  | O. W.        | 6   | 4   | 1  | 1   | 2   | 2             | 6   | 5   | 2  | 1     | 1   | 1     | 2   | 6     | 3   | 1     | 3   | 3   | 3   | 3     | 3   | 3     | 3   | 3     | 3   | 3              | 3    | 3      | 20  |  |     |     |      |     |
| (E) XVII. Accidents, poisonings & violence (external cause)                                     | O. W.        | 2   | 1   | 4  | 5   | 4   | 15            | 10  | 11  | 9  | 9     | 5   | 5     | 70  | 4     | 77  | 20    | 65  | 12  | 32  | 7     | 22  | 6     | 14  | 1     | 1   | 1              | 1    | 13     |     |  |     |     |      |     |
| TOTALS  | W. O.        | 33  | 15  | 3  | 2   | 3   | 10            | 39  | 27  | 5  | 2     | 1   | 3     | 19  | 11    | 4   | 11    | 27  | 14  | 34  | 11    | 256 | 159   | 360 | 229   | 323 | 80             | 363  | 279    | 216 |  |     |     |      |     |
| ALL RACES   | 475 410      | 92  | 72  | 36 | 53  | 603 | 535           | 32  | 23  | 21 | 22    | 133 | 50    | 186 | 101   | 360 | 158   | 508 | 271   | 654 | 414   | 710 | 570   | 348 | 493   | 130 | 322            | 3685 | 6644   | 236 | 80                                       | 363 | 279 | 1009 | 679 |

REPORT OF THE MEDICAL OFFICER OF HEALTH

TABLE B. Deaths Classified for Causes and Race, 1973.  
 (Corrected)

| International<br>Code No. | CAUSE OF DEATH                                       | White | Coloured | Bantu | Asiatic | Non-<br>White | All<br>Races |      |
|---------------------------|--|-------|----------|-------|---------|---------------|--------------|------|
|                           |  |       |          |       |         |               |              |      |
| 001-008                   | Tuberculosis, respiratory system                     | ...   | 8        | 110   | 72      | 1             | 183          | 191  |
| 010-019                   | Tuberculosis, other forms                            | ...   | ...      | 6     | 13      | 19            | 19           | 19   |
| 020-029                   | Syphilis   | ...   | 5        | 11    | 1       | 12            | 12           | 17   |
| 040                       | Typhoid fever  | ...   | ...      | ...   | 4       | 4             | 8            | 8    |
| 045-048                   | Dysentery  | ...   | ...      | ...   | 4       | 4             | 8            | 8    |
| 055                       | Diphtheria   | ...   | ...      | ...   | 2       | 2             | 2            | 2    |
| 056                       | Whooping cough                                       | ...   | ...      | ...   | 2       | 2             | 5            | 5    |
| 057                       | Meningococcal infections                             | ...   | ...      | 1     | ...     | ...           | ...          | ...  |
| 080                       | Acute poliomyelitis                                  | ...   | ...      | 1     | 34      | 15            | 49           | 50   |
| 085-086                   | Measles  | ...   | ...      | 16    | 38      | 15            | 55           | 55   |
|                           | Other diseases classified as infective and parasitic | ...   | ...      | 430   | 390     | 117           | 513          | 943  |
|                           | Malignant neoplasms                                  | ...   | ...      | 6     | 2       | 2             | 4            | 10   |
|                           | Benign neoplasms                                     | ...   | ...      | 22    | 74      | 5             | 83           | 105  |
|                           | Diabetes mellitus                                    | ...   | ...      | 1     | 6       | 1             | 7            | 8    |
|                           | Anaemias   | ...   | ...      | 248   | 319     | 62            | 384          | 632  |
|                           | Vascular lesions affecting central nervous system    | ...   | ...      | 3     | 40      | 14            | 54           | 57   |
|                           | Non-Meningococcal infections                         | ...   | ...      | 2     | 1       | 1             | 3            | 3    |
|                           | Rheumatic fever                                      | ...   | ...      | 6     | 27      | 4             | 31           | 37   |
|                           | Chronic rheumatic heart disease                      | ...   | ...      | 591   | 368     | 29            | 411          | 1002 |
|                           | Arteriosclerotic and degenerative heart disease      | ...   | ...      | 77    | 154     | 26            | 181          | 258  |
|                           | Other diseases of heart                              | ...   | ...      | 25    | 63      | 19            | 82           | 107  |
|                           | Hypertension with heart disease                      | ...   | ...      | 6     | 37      | 10            | 48           | 54   |
|                           | Hypertension without mention of heart                | ...   | ...      | 43    | 27      | 4             | 31           | 74   |
|                           | Diseases of the arteries                             | ...   | ...      | 5     | 1       | 1             | 6            | 6    |
|                           | Influenza  | ...   | ...      | 83    | 317     | 125           | 443          | 526  |
|                           | Pneumonia  | ...   | ...      | 21    | 46      | 7             | 53           | 74   |
|                           | Bronchitis   | ...   | ...      | 6     | 13      | 13            | 19           | 19   |
|                           | Ulcer of stomach and duodenum                        | ...   | ...      | 3     | 3       | 3             | 3            | 3    |
|                           | Appendicitis   | ...   | ...      | 7     | 4       | 2             | 6            | 13   |
|                           | Intestinal obstruction and hernia                    | ...   | ...      | 1     | 181     | 129           | 312          | 313  |
|                           | Gastro enteritis                                     | ...   | ...      | 36    | 31      | 11            | 43           | 79   |
|                           | Cirrhosis of liver                                   | ...   | ...      | 13    | 26      | 8             | 35           | 48   |
|                           | Nephritis and nephrosis                              | ...   | ...      | ...   | ...     | ...           | ...          | ...  |
|                           | Hyperplasia of prostate                              | ...   | ...      | ...   | ...     | ...           | 3            | 3    |
|                           | Complications of pregnancy and childbirth            | ...   | ...      | ...   | ...     | ...           | 47           | 60   |
|                           | Congenital malformations                             | ...   | ...      | 13    | 36      | 20            | 55           | 60   |
|                           | Birth injuries and post-natal asphyxia               | ...   | ...      | 5     | 34      | 47            | 1            | 208  |
|                           | Other infant diseases and immaturity                 | ...   | ...      | 22    | 160     | 40            | 3            | 230  |
|                           | Senility and ill defined                             | ...   | ...      | 349   | 187     | 60            | 1            | 579  |
|                           | Motor vehicle accidents                              | ...   | ...      | 30    | 110     | 60            | 171          | 201  |
|                           | All other accidents                                  | ...   | ...      | 39    | 72      | 49            | 2            | 162  |
|                           | Suicide  | ...   | ...      | 35    | 11      | 6             | 17           | 52   |
|                           | Homicide   | ...   | ...      | 4     | 41      | 30            | 1            | 76   |
|                           | Other causes   | ...   | ...      | 128   | 260     | 92            | 7            | 487  |
|                           | Total  | 228   | 3256     | 1052  | 55      | 359           | 487          | 6644 |

**TABLE C Deaths by Cause and Month of Registration, 1973.**  
(Corrected)

| International<br>Code No. | Disease  | Race            | January    | February   | March      | April      | May        | June       | July       | August     | September  | October    | November   | December   | Year         |
|---------------------------|--|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| 001-008                   | Tuberculosis of respiratory system   | White<br>Non-W. | 17<br>14   | 2<br>10    | 2<br>15    | 1<br>18    | 18<br>19   | 1<br>15    | 1<br>16    | 1<br>20    | 1<br>13    | 11<br>13   | 15<br>15   | 183<br>183 | 8            |
| 010-019                   | Tuberculosis, other forms ...  | White<br>Non-W. | 1<br>1     | 3<br>1     | 2<br>1     |            | 4<br>1     |            |            | 1<br>2     | 1<br>2     | 3<br>3     | 2<br>3     | 1<br>1     | 19<br>12     |
| 020-029                   | Syphilis and its sequelae ...  | White<br>Non-W. |            |            | 1          |            | 1<br>2     |            | 2<br>1     |            |            |            | 1<br>2     | 1<br>1     | 5<br>12      |
| 040-041                   | Typhoid fever ...  | White<br>Non-W. |            |            |            |            |            |            |            |            |            |            |            |            |              |
| 055                       | Diphtheria ...   | White<br>Non-W. |            |            |            |            |            |            |            |            |            |            |            |            |              |
| 056                       | Whooping cough ...   | White<br>Non-W. | 1<br>1     |            |            |            |            |            |            | 1<br>1     |            |            |            |            | 2            |
| 057                       | Meningococcal infections ...   | White<br>Non-W. |            |            |            |            |            |            | 1<br>1     | 2<br>2     |            |            |            |            | 1<br>4       |
| 080                       | Acute poliomyelitis ...  | White<br>Non-W. |            |            |            |            |            |            |            |            |            |            |            |            |              |
| 085-086                   | Measles and rubella ...  | White<br>Non-W. | 2<br>2     | 3<br>3     | 4<br>34    | 1<br>24    | 2<br>38    | 7<br>39    | 8<br>35    | 7<br>48    | 4<br>30    | 6<br>40    | 2<br>36    | 3<br>45    | 49<br>430    |
| 140-205                   | Malignant neoplasms, including neoplasms of lymphatic and haematopoietic tissues ... | White<br>Non-W. | 36<br>38   | 25<br>35   | 34<br>41   | 24<br>33   | 38<br>42   | 50<br>50   | 35<br>35   | 39<br>39   | 56<br>56   | 43<br>43   | 44<br>44   | 57<br>57   | 513<br>513   |
| 260                       | Diabetes ...   | White<br>Non-W. | 1<br>10    | 1<br>10    | 5<br>15    | 3<br>5     | 1<br>4     | 1<br>6     | 2<br>9     | 2<br>10    | 3<br>4     | 1<br>4     | 2<br>4     | 2<br>2     | 22<br>83     |
| 330-334                   | Vascular lesions affecting central nervous system ...                                | White<br>Non-W. | 19<br>35   | 10<br>20   | 16<br>37   | 27<br>23   | 18<br>45   | 21<br>32   | 21<br>29   | 24<br>41   | 25<br>36   | 22<br>22   | 18<br>32   | 27<br>32   | 248<br>384   |
| 400-402                   | Rheumatic fever ...  | White<br>Non-W. |            |            |            |            |            |            | 2          |            |            |            |            |            | 3            |
| 410-416                   | Cardiovascular diseases ...  | White<br>Non-W. | 49<br>38   | 38<br>31   | 62<br>44   | 46<br>50   | 60<br>49   | 70<br>64   | 56<br>58   | 80<br>73   | 68<br>56   | 51<br>59   | 37<br>50   | 57<br>51   | 674<br>623   |
| 420-422                   |  |                 |            |            |            |            |            |            |            |            |            |            |            |            |              |
| 430-434                   |  |                 |            |            |            |            |            |            |            |            |            |            |            |            |              |
| 440-447                   | Hypertensive diseases ...  | White<br>Non-W. | 4<br>9     | 3<br>12    | 3<br>14    | 1<br>3     | 1<br>13    | 2<br>17    | 5<br>14    | 7<br>18    | 1<br>10    | 3<br>10    | 1<br>2     | 1<br>2     | 31<br>130    |
| 450-456                   | Diseases of the arteries ...   | White<br>Non-W. | 2<br>2     | 1<br>3     | 2<br>4     | 2<br>3     | 2<br>1     | 9<br>2     | 4<br>1     | 6<br>7     | 8<br>3     | 4<br>2     | 2<br>2     | 1<br>3     | 43<br>31     |
| 480-483                   | Influenza ...  | White<br>Non-W. |            |            |            | 1<br>1     | 1<br>1     | 2<br>2     |            | 1<br>7     |            |            |            |            | 6            |
| 490-493                   | Pneumonia (including pneumonia of the new born) ...                                  | White<br>Non-W. | 8<br>27    | 5<br>20    | 7<br>40    | 6<br>28    | 3<br>42    | 10<br>38   | 7<br>47    | 7<br>45    | 8<br>48    | 8<br>42    | 5<br>37    | 9<br>29    | 83<br>443    |
| 763                       |  |                 |            |            |            |            |            |            |            |            |            |            |            |            |              |
| 500-502                   | Bronchitis ...   | White<br>Non-W. | 3<br>6     | 1<br>8     | 1<br>5     | 1<br>1     | 1<br>4     | 2<br>3     | 3<br>6     | 4<br>4     | 2<br>7     | 1<br>2     | 3<br>2     | 3<br>5     | 21<br>53     |
| 571,764                   | Gastro-enteritis and colitis (including diarrhoea of the new born)                   | White<br>Non-W. |            |            |            |            |            |            | 1          |            |            |            |            |            | 1            |
| 590-594                   | Nephritis ...  | White<br>Non-W. | 2<br>4     | 1<br>5     | 1<br>3     | 2<br>3     | 4<br>6     | 4<br>3     | 2<br>2     | 2<br>4     | 4<br>4     | 1<br>4     | 1<br>1     |            | 13<br>35     |
| 640-652                   | Complications of pregnancy ...   | White<br>Non-W. |            |            |            |            |            |            |            |            |            |            |            |            | 3            |
| 670-689                   | childbirth and the puerperium  |                 |            |            |            |            |            |            |            |            |            |            |            |            | 13           |
| 750-759                   | Congenital malformations ...   | White<br>Non-W. | 3<br>5     | 2<br>5     | 1<br>3     | 1<br>4     | 1<br>5     | 2<br>5     | 4<br>4     | 1<br>4     | 2<br>4     | 2<br>2     | 3<br>3     | 3<br>3     | 47           |
| 760-762                   | Birth injuries, post-natal ...   | White<br>Non-W. | 1<br>7     |            | 7<br>6     | 3<br>3     | 1<br>1     | 1<br>7     | 7<br>7     | 4<br>4     | 5<br>5     | 1<br>1     | 1<br>2     | 5<br>5     | 5            |
| 765-776                   | asphyxia and atelectasis ...   |                 |            |            |            |            |            |            |            |            |            |            |            |            |              |
|                           | Other diseases peculiar to early Infancy and immaturity unqualified                  | White<br>Non-W. | 4<br>20    | 1<br>16    | 6<br>12    | 3<br>15    | 3<br>22    | 1<br>19    | 1<br>19    | 20<br>20   | 13<br>13   | 17<br>17   | 18<br>18   | 20<br>20   | 211          |
| 780-795                   | Senility and ill-defined diseases  | White<br>Non-W. | 21<br>17   | 23<br>11   | 32<br>37   | 21<br>13   | 26<br>20   | 30<br>12   | 39<br>17   | 36<br>25   | 34<br>21   | 28<br>25   | 33<br>15   | 26<br>17   | 349<br>230   |
| E810-E835                 | Motor vehicle accidents ...  | White<br>Non-W. | 2<br>31    | 1<br>6     | 2<br>8     | 2<br>15    | 3<br>11    | 2<br>6     | 9<br>9     | 22<br>22   | 1<br>1     | 3<br>10    | 8<br>15    | 2<br>14    | 30<br>171    |
| E800-802                  | All other accidents ...  | White<br>Non-W. | 3<br>18    | 3<br>14    | 2<br>4     | 9<br>8     | 3<br>5     | 3<br>10    | 3<br>10    | 2<br>13    | 6<br>13    | 1<br>2     | 1<br>13    | 3<br>13    | 39<br>123    |
| E840-E965                 |  |                 |            |            |            |            |            |            |            |            |            |            |            |            |              |
| E970-E979                 | Suicide ...  | White<br>Non-W. | 4<br>4     | 2<br>1     |            | 7<br>4     | 3<br>1     | 2<br>2     | 6<br>6     | 3<br>1     | 3<br>3     | 3<br>1     | 2<br>1     | 1<br>1     | 35<br>17     |
| E980-985                  | Homicide ...   | White<br>Non-W. | 1<br>19    | 3<br>3     | 6<br>4     | 4<br>5     | 5<br>5     | 5<br>3     | 3<br>3     | 10<br>10   | 2<br>2     | 5<br>5     | 1<br>1     | 9<br>9     | 4<br>72      |
|                           | All causes ...   | White<br>Non-W. | 177<br>382 | 125<br>278 | 192<br>382 | 170<br>277 | 175<br>385 | 213<br>383 | 207<br>379 | 245<br>449 | 222<br>437 | 189<br>337 | 174<br>321 | 192<br>353 | 2281<br>4363 |

TABLE D Death Rates per 1,000 Population for 1973 and Ten Previous Years by Causes and Race.

(Corrected)

| DISEASE   | Race   | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | Mean<br>10 Yrs. | 1973 |
|---|--------|------|------|------|------|------|------|------|------|------|------|-----------------|------|
| Tuberculosis, respiratory system                                    | White  | 0,11 | 0,05 | 0,05 | 0,03 | 0,04 | 0,03 | 0,04 | 0,02 | 0,05 | 0,05 | 0,03            | 0,35 |
|   | Non-W. | 0,45 | 0,42 | 0,43 | 0,34 | 0,45 | 0,39 | 0,40 | 0,38 | 0,31 | 0,38 | 0,39            | 0,35 |
| Tuberculosis, other forms   | White  | 0,01 | 0,00 | 0,01 | 0,01 | 0,05 | 0,05 | 0,00 | 0,01 | 0,03 | 0,03 | 0,05            | 0,04 |
|   | Non-W. | 0,07 | 0,06 | 0,06 | 0,07 |      |      | 0,05 | 0,05 | 0,03 | 0,03 | 0,05            | 0,04 |
| Syphilis  | White  | 0,02 | 0,03 | 0,01 | 0,00 | 0,01 | 0,01 | 0,00 | 0,02 | 0,02 | 0,01 | 0,02            | 0,02 |
|   | Non-W. | 0,02 | 0,03 | 0,01 | 0,00 | 0,02 | 0,02 | 0,02 | 0,02 | 0,01 | 0,01 | 0,02            | 0,02 |
| Aneurysm of the aorta   | White  | 0,00 | 0,01 | 0,00 |      |      |      |      |      |      |      | 0,02            |      |
|   | Non-W. |      |      |      |      |      |      |      |      |      |      | 0,01            |      |
| General paralysis of the insane:<br>tabes dorsalis                  | White  | 0,01 | 0,02 | 0,02 | 0,01 | 0,00 | 0,01 | 0,01 | 0,01 | 0,01 | 0,00 | 0,00            | 0,00 |
|   | Non-W. |      |      |      |      | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 | 0,00 | 0,01            | 0,00 |
| Enteric fever:  | White  | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 | 0,00 |      |      |      | 0,00 | 0,00            |      |
|   | Non-W. |      |      |      |      |      |      |      |      |      |      | 0,00            |      |
| Scarlet fever   | White  | 0,00 | 0,00 | 0,00 | 0,00 |      |      |      |      |      |      |                 |      |
|   | Non-W. |      |      |      |      |      |      |      |      |      |      |                 |      |
| Purulent infection - septicaemia, and<br>erysipelas (non-puerperal) | White  | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,03 | 0,03 | 0,03 | 0,03 | 0,03            | 0,06 |
|   | Non-W. | 0,03 | 0,01 | 0,03 | 0,03 | 0,04 | 0,04 | 0,01 | 0,01 | 0,03 | 0,03 | 0,05            | 0,08 |
| Diphtheria  | White  | 0,01 | 0,00 | 0,01 | 0,00 | 0,01 | 0,00 |      |      |      |      | 0,00            |      |
|   | Non-W. |      |      |      |      |      |      |      |      |      |      | 0,00            |      |
| Whooping cough  | White  | 0,02 | 0,02 | 0,01 | 0,01 | 0,00 | 0,00 | 0,01 | 0,01 | 0,01 | 0,01 | 0,01            | 0,00 |
|   | Non-W. |      |      |      |      |      |      |      |      |      |      |                 |      |
| Meningococcal cerebrospinal meningitis                              | White  | 0,00 | 0,00 | 0,01 | 0,03 | 0,07 | 0,07 | 0,01 | 0,02 | 0,01 | 0,01 | 0,02            | 0,01 |
|   | Non-W. |      |      |      |      |      |      |      |      |      |      |                 |      |
| Acute anterior poliomyelitis and polioen-<br>cephalitis             | White  | 0,00 | 0,00 | 0,01 | 0,01 | 0,00 | 0,00 | 0,00 | 0,00 | 0,01 | 0,01 | 0,00            | 0,00 |
|   | Non-W. |      |      |      |      |      |      |      |      |      |      |                 |      |
| Acute infectious encephalitis                                       | White  | 0,00 | 0,00 | 0,01 | 0,01 | 0,00 | 0,00 | 0,01 | 0,01 | 0,01 | 0,01 | 0,00            | 0,00 |
|   | Non-W. |      |      |      |      |      |      |      |      |      |      |                 |      |
| Measles   | White  | 0,01 | 0,00 | 0,01 | 0,00 | 0,08 | 0,08 | 0,09 | 0,12 | 0,09 | 0,11 | 0,06            | 0,09 |
|   | Non-W. | 0,23 | 0,09 | 0,17 | 0,11 |      |      |      |      |      |      | 0,11            | 0,09 |
| Cancer  | White  | 1,57 | 1,74 | 1,75 | 1,72 | 1,79 | 1,74 | 1,90 | 1,73 | 1,65 | 1,70 | 1,73            | 1,77 |
|   | Non-W. | 0,77 | 0,84 | 0,82 | 0,79 | 0,80 | 0,84 | 0,88 | 0,82 | 0,88 | 0,82 | 0,84            | 0,97 |

TABLE D - Continued.

| DISEASE  | Race | 1963 | 1964                            | 1965           | 1966                  | 1967          | 1968          | 1969          | 1970          | 1971         | 1972         | Mean<br>10 Yrs. | 1973         |
|--|------|------|---------------------------------|----------------|-----------------------|---------------|---------------|---------------|---------------|--------------|--------------|-----------------|--------------|
| Diabetes   | ...  | ...  | ...                             | ...            | White<br>0,12<br>0,08 | 0,10<br>0,08  | 0,15<br>0,13  | 0,14<br>0,14  | 0,18<br>0,16  | 0,33<br>0,23 | 0,40<br>0,35 | 0,33<br>0,29    | 0,22<br>0,20 |
| Intracranial lesions of vascular origin  | ...  | ...  | White<br>1,15<br>0,94           | 1,30<br>0,92   | 1,11<br>0,90          | 1,49<br>0,78  | 1,23<br>0,86  | 1,49<br>0,80  | 1,29<br>0,72  | 1,02<br>0,77 | 1,16<br>0,62 | 0,97<br>0,66    | 1,17<br>0,79 |
| Acute rheumatic fever  | ...  | ...  | White<br>0,00<br>Non-W.<br>0,00 | 0,01<br>0,01   | 0,01<br>0,01          | 0,01<br>0,02  | 0,01<br>0,02  | 0,01<br>0,02  | 0,02<br>0,01  | 0,01<br>0,01 | 0,00<br>0,00 | 0,00<br>0,01    | 0,00<br>0,01 |
| Cardiac diseases   | ...  | ...  | White<br>3,32<br>Non-W.<br>1,53 | 3,25<br>1,54   | 3,06<br>1,50          | 2,92<br>1,30  | 2,98<br>1,35  | 2,74<br>1,34  | 2,82<br>1,15  | 2,35<br>1,22 | 2,05<br>1,02 | 2,83<br>1,24    | 2,88<br>1,33 |
| Arterio sclerosis  | ...  | ...  | White<br>0,14<br>0,07           | 0,14<br>0,09   | 0,13<br>0,07          | 0,25<br>0,08  | 0,10<br>0,07  | 0,07<br>0,06  | 0,07<br>0,02  | 0,09<br>0,04 | 0,11<br>0,04 | 0,06<br>0,04    | 0,08<br>0,02 |
| Influenza  | ...  | ...  | White<br>0,03<br>Non-W.<br>0,02 | 0,00<br>0,01   | 0,00<br>0,01          | 0,00<br>0,01  | 0,00<br>0,01  | 0,00<br>0,02  | 0,00<br>0,01  | 0,00<br>0,01 | 0,00<br>0,01 | 0,00<br>0,01    | 0,00<br>0,01 |
| Bronchitis and pneumonia (including pneumonia of the newborn)                        | ...  | ...  | White<br>0,24<br>0,96           | 0,37<br>0,81   | 0,32<br>0,79          | 0,27<br>0,83  | 0,31<br>0,88  | 0,25<br>0,87  | 0,34<br>0,94  | 0,41<br>1,00 | 0,38<br>0,86 | 0,45<br>0,86    | 0,34<br>0,88 |
| Gastro-enteritis and colitis, except ulcerative (including diarrhoea of the newborn) | ...  | ...  | White<br>0,04<br>1,22           | 0,02<br>0,99   | 0,02<br>1,05          | 0,03<br>0,88  | 0,02<br>0,80  | 0,02<br>0,69  | 0,02<br>0,76  | 0,04<br>0,85 | 0,01<br>0,63 | 0,01<br>0,43    | 0,02<br>0,81 |
| Nephritis  | ...  | ...  | White<br>0,11<br>0,10           | 0,13<br>0,14   | 0,07<br>0,11          | 0,06<br>0,07  | 0,06<br>0,08  | 0,09<br>0,13  | 0,08<br>0,10  | 0,11<br>0,07 | 0,11<br>0,08 | 0,06<br>0,08    | 0,09<br>0,09 |
| Puerperal sepsis   | ...  | ...  | White<br>0,04<br>Non-W.<br>0,04 | 0,01<br>0,03   | 0,03<br>0,02          | 0,02<br>0,02  | 0,02<br>0,01  | 0,00<br>0,01  | 0,00<br>0,01  | 0,01<br>0,01 | 0,00<br>0,01 | 0,00<br>0,01    | 0,00<br>0,00 |
| Other diseases of pregnancy, childbirth, and puerperal state                         | ...  | ...  | White<br>0,02<br>Non-W.<br>0,02 | 0,01<br>0,03   | 0,03<br>0,03          | 0,04<br>0,03  | 0,04<br>0,02  | 0,02<br>0,01  | 0,02<br>0,02  | 0,02<br>0,02 | 0,01<br>0,01 | 0,00<br>0,02    | 0,00<br>0,00 |
| Congenital malformations and diseases of early infancy                               | ...  | ...  | White<br>0,31<br>1,21           | 0,30<br>1,16   | 0,28<br>1,29          | 0,24<br>1,18  | 0,21<br>1,09  | 0,25<br>0,99  | 0,30<br>0,97  | 0,23<br>0,90 | 0,20<br>0,76 | 0,19<br>0,56    | 0,25<br>0,99 |
| Senility   | ...  | ...  | White<br>1,31<br>0,23           | 1,44<br>0,31   | 1,47<br>0,36          | 1,46<br>0,63  | 1,50<br>0,34  | 1,55<br>0,39  | 1,51<br>0,45  | 1,59<br>0,49 | 1,61<br>0,31 | 1,50<br>0,39    | 1,50<br>0,44 |
| Accidents, poisonings and violence (external cause)                                  | ...  | ...  | White<br>0,53<br>0,68           | 0,71<br>0,99   | 0,58<br>1,07          | 0,52<br>1,02  | 0,57<br>1,07  | 0,42<br>0,89  | 0,57<br>1,07  | 0,57<br>1,14 | 0,37<br>0,94 | 0,31<br>0,57    | 0,51<br>0,94 |
| Other causes   | ...  | ...  | White<br>1,08<br>1,57           | 0,96<br>1,73   | 1,20<br>1,79          | 1,24<br>1,71  | 1,05<br>1,31  | 1,26<br>1,51  | 1,32<br>1,40  | 1,33<br>1,72 | 1,23<br>1,36 | 1,16<br>1,42    | 1,01<br>1,58 |
| Total  | ...  | ...  | White<br>10,12<br>10,30         | 10,57<br>10,32 | 10,20<br>10,61        | 10,46<br>9,76 | 10,03<br>9,91 | 10,19<br>9,31 | 10,57<br>9,62 | 9,04<br>7,82 | 8,99<br>7,41 | 10,02<br>9,35   | 9,40<br>8,26 |

TABLE E Deaths of Infants under 1 Year of Age, Classified by Cause and Age, 1973.

(Corrected)

| International<br>Code<br>No. | DISEASE   | RACE            | Bantu Townships<br>Included in foregoing<br>columns |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |                                  | GUGULETU                 |                          |                         |                       |              |              |              |              |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
|------------------------------|---|-----------------|---|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------------------|--------------------------|--------------------------|-------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|-------------|----|--------------|-----|-----|-----|-----|----|----|----|-----|----|-----|
|                              |   |                 | TOTAL<br>under one<br>year                          |                    |                    |                   | LANGA             |                   |                   |                   | GUGULETU          |                   |                   |                                  |                          |                          |                         |                       |              |              |              |              |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
|                              |   |                 | Under 1<br>months                                   | Under 11<br>months | Under 10<br>months | Under 9<br>months | Under 8<br>months | Under 7<br>months | Under 6<br>months | Under 5<br>months | Under 4<br>months | Under 3<br>months | Under 2<br>months | 4 weeks<br>Total under<br>1 week | 3 weeks<br>Under 4 weeks | 2 weeks<br>Under 3 weeks | 1 week<br>Under 2 weeks | Total under<br>7 days | Under 6 days | Under 5 days | Under 4 days | Under 3 days | Under 2 days | Under 1 day |    |              |     |     |     |     |    |    |    |     |    |     |
| 010                          | Tuberculosis, meningeal                           | White<br>Non-W. | 1   | 2                  | 3                  | 4                 | 5                 | 6                 | 7                 | 1                 | 2                 | 3                 | 4                 | 1                                | 2                        | 3                        | 4                       | 5                     | 6            | 7            | 8            | 9            | 10           | 11          | 12 | M<br>Persons |     |     |     |     |    |    |    |     |    |     |
| 011                          | Tuberculosis, abdominal                           | White<br>Non-W. |   |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |                                  |                          |                          |                         |                       |              |              |              |              |              |             |    | F<br>Persons |     |     |     |     |    |    |    |     |    |     |
| 001-008<br>012-019           | Tuberculosis, other forms                         | White<br>Non-W. |   |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |                                  |                          |                          |                         |                       |              |              |              |              |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
| 020                          | Syphilis, congenital                              | White<br>Non-W. | 4   | 1                  | 1                  | 6                 | 1                 | 1                 | 8                 |                   |                   |                   |                   |                                  |                          |                          |                         |                       |              |              |              |              |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
| 050                          | Scarlet fever                                     | White<br>Non-W. |   |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |                                  |                          |                          |                         |                       |              |              |              |              |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
| 053                          | Septicaemia                                       | White<br>Non-W. | 1   |                    |                    | 1                 | 2                 | 2                 | 5                 | 1                 | 1                 | 2                 |                   |                                  |                          |                          |                         |                       | 1            | 1            | 3            | 7            | 14           | 1           | 1  | 1            |     |     |     |     |    |    |    |     |    |     |
| 055                          | Diphtheria  | White<br>Non-W. |   |                    |                    |                   |                   |                   |                   | 1                 | 3                 |                   |                   |                                  |                          |                          |                         |                       | 2            | 2            | 4            |              |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
| 056                          | Whooping cough                                    | White<br>Non-W. |   |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |                                  |                          |                          |                         |                       | 2            | 2            | 2            |              |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
| 061                          | Tetanus and tetanus<br>neonatorium                | White<br>Non-W. |   |                    | 1                  |                   |                   |                   |                   |                   |                   |                   |                   |                                  |                          |                          |                         |                       | 1            | 1            |              |              |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
| 085-086                      | Measles and rubella                               | White<br>Non-W. |   |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |                                  |                          |                          |                         |                       | 1            | 5            | 3            | 4            | 3            | 6           | 9  | 14           | 23  |     |     |     |    |    |    |     |    |     |
| 279-289                      | Avitaminosis                                      | White<br>Non-W. |   |                    | 1                  |                   | 1                 | 1                 | 2                 | 1                 | 2                 | 1                 | 2                 |                                  |                          |                          |                         |                       | 6            | 7            | 13           | 1            | 2            | 3           | 4  | 3            | 7   |     |     |     |    |    |    |     |    |     |
| 340                          | Simple meningitis                                 | White<br>Non-W. |   |                    |                    | 5                 | 3                 | 1                 | 9                 | 3                 | 4                 | 2                 | 1                 | 2                                | 2                        | 1                        | 1                       | 2                     | 12           | 15           | 27           | 3            | 3            | 1           | 1  | 1            |     |     |     |     |    |    |    |     |    |     |
| 490-493<br>763               | Pneumonia (all forms)                             | White<br>Non-W. | 1   | 2                  | 4                  | 1                 | 2                 | 11                | 4                 | 4                 | 7                 | 26                | 22                | 15                               | 16                       | 7                        | 6                       | 7                     | 3            | 8            | 5            | 84           | 77           | 161         | 6  | 4            | 10  | 16  | 15  | 31  |    |    |    |     |    |     |
| 500-502                      | Bronchitis  | White<br>Non-W. |   |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |                                  |                          |                          | 2                       | 1                     |              |              |              |              |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
| 571,764                      | Diarrhoea and enteritis                           | White<br>Non-W. |   |                    | 1                  |                   | 1                 | 2                 | 5                 | 4                 | 12                | 22                | 30                | 33                               | 31                       | 16                       | 24                      | 12                    | 13           | 8            | 6            | 1            | 1            | 14          | 9  | 23           | 36  | 33  | 69  |     |    |    |    |     |    |     |
| 754                          | Congenital malformations<br>Circulatory system    | White<br>Non-W. | 1   | 1                  | 3                  | 1                 | 2                 | 2                 | 7                 | 2                 | 4                 | 4                 | 13                | 1                                | 3                        | 2                        | 1                       | 1                     | 1            | 1            | 15           | 9            | 24           | 2           | 2  | 3            | 1   | 4   |     |     |    |    |    |     |    |     |
| 750-3<br>755-9               | Congenital malformations<br>Other defects         | White<br>Non-W. | 2   | 2                  | 2                  | 1                 |                   |                   | 3                 | 1                 | 1                 | 5                 | 1                 | 1                                | 8                        | 1                        | 1                       | 3                     |              |              | 6            | 8            | 14           |             | 1  | 1            | 1   | 1   |     |     |    |    |    |     |    |     |
| 760-761                      | Injury at birth                                   | White<br>Non-W. | 8   | 4                  | 4                  | 1                 |                   |                   | 1                 | 17                | 2                 | 1                 | 2                 | 19                               |                          |                          |                         |                       |              |              | 2            | 12           | 19           |             | 2  | 4            | 6   |     |     |     |    |    |    |     |    |     |
| 762                          | Postnatal Asphyxia and<br>Atelectasis             | White<br>Non-W. | 12  | 10                 | 2                  | 3                 | 1                 |                   | 2                 | 28                | 4                 | 2                 | 2                 | 34                               | 2                        | 1                        |                         |                       |              |              | 22           | 14           | 36           | 1           | 1  | 8            | 5   | 13  |     |     |    |    |    |     |    |     |
| 765-9                        | Other Diseases peculiar<br>to early infancy.      | White<br>Non-W. |   |                    | 1                  | 2                 | 1                 | 4                 |                   |                   |                   | 1                 | 5                 |                                  |                          |                          |                         |                       |              |              | 3            | 2            | 5            |             |    | 1            | 1   |     |     |     |    |    |    |     |    |     |
| 770-1                        | Haemolytic & Haemorrhagic<br>Diseases of new born | White<br>Non-W. | 2   | 1                  | 1                  |                   | 1                 | 4                 |                   |                   |                   | 3                 | 4                 |                                  |                          |                          |                         |                       |              |              | 3            | 3            | 5            |             |    | 1            | 1   |     |     |     |    |    |    |     |    |     |
| 772-3                        | Nutritional and other<br>ill defined diseases     | White<br>Non-W. | 9   | 8                  | 7                  | 4                 | 4                 | 1                 | 5                 | 32                | 2                 | 1                 | 6                 | 34                               | 5                        | 2                        | 2                       | 1                     | 3            |              | 21           | 26           | 47           |             | 4  | 6            | 10  |     |     |     |    |    |    |     |    |     |
| 774-776                      | Prematurity                                       | White<br>Non-W. | 4   | 3                  | 1                  | 2                 | 1                 | 1                 | 12                | 1                 | 1                 | 13                | 2                 | 1                                | 146                      | 4                        |                         |                       |              | 9            | 4            | 13           | 67           | 150         | 6  | 2            | 8   | 16  | 9   | 25  |    |    |    |     |    |     |
| E, 924-<br>E, 925            | Accidental mechanical<br>suffocation              | White<br>Non-W. |   |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |                                  |                          |                          |                         |                       | 1            | 1            | 1            | 2            |              |             |    |              |     |     |     |     |    |    |    |     |    |     |
|                              | Other and ill-defined or<br>unknown causes        | White<br>Non-W. | 6   | 5                  | 1                  | 1                 | 1                 | 3                 | 13                | 3                 | 3                 | 19                | 5                 | 1                                | 5                        | 4                        | 2                       | 6                     | 1            | 2            | 5            | 34           | 23           | 57          | 10 | 8            | ,18 |     |     |     |    |    |    |     |    |     |
|                              | TOTALS  | White<br>Non-W. | 5   | 8                  | 5                  | 4                 | 2                 | 12                | 3                 | 271               | 35                | 3                 | 28                | 5                                | 3                        | 1                        | 347                     | 68                    | 71           | 71           | 56           | 43           | 46           | 29          | 25 | 21           | 31  | 442 | 395 | 837 | 29 | 23 | 52 | 108 | 93 | 201 |

**TABLE E1 Deaths of Infants under 1 Year of Age, Classified by Cause and Month of Registration 1973.**  
 (Corrected)

TABLE F Deaths of Infants under 1 Year of Age, Classified by Legitimacy, 1973  
(Corrected)

| Place<br>of<br>Death | All Infants |     |                |     | Legitimate |     |                |    | Illegitimate |    |                |    | Unknown        |                   |
|----------------------|-------------|-----|----------------|-----|------------|-----|----------------|----|--------------|----|----------------|----|----------------|-------------------|
|                      | Neo-natal   |     | Post neo-natal |     | Neo-natal  |     | Post neo-natal |    | Neo-natal    |    | Post neo-natal |    | Neo-<br>natal. | Post<br>neo-natal |
|                      | M.          | F.  | M.             | F.  | M.         | F.  | M.             | F. | M.           | F. | M.             | F. |                |                   |
| White ... ...        | Hospital    | 24  | 12             | 5   | 3          | 21  | 12             | 4  | 2            | 1  | 1              | 1  | 2              | 1                 |
|                      | Domiciliary | 1   |                | 3   |            |     |                | 2  |              |    | 1              |    | 1              |                   |
| Coloured ... ...     | Hospital    | 127 | 100            | 75  | 74         | 66  | 43             | 32 | 30           | 49 | 43             | 31 | 31             | 26                |
|                      | Domiciliary | 14  | 14             | 76  | 82         | 4   | 8              | 30 | 32           | 8  | 4              | 41 | 37             | 4                 |
| Bantu ... ...        | Hospital    | 51  | 33             | 42  | 40         | 16  | 10             | 11 | 11           | 21 | 17             | 18 | 18             | 20                |
|                      | Domiciliary | 2   | 2              | 51  | 47         |     |                | 13 | 12           |    | 1              | 26 | 24             | 3                 |
| Asiatic ... ...      | Hospital    | 1   | 2              | 2   | 1          | 1   | 1              | 2  |              |    | 1              |    | 1              |                   |
|                      | Domiciliary | 1   |                |     |            | 1   |                |    |              |    |                |    |                |                   |
| Non-White ... ...    | Hospital    | 179 | 135            | 119 | 115        | 83  | 54             | 45 | 41           | 70 | 61             | 49 | 49             | 46                |
|                      | Domiciliary | 17  | 16             | 127 | 129        | 5   | 8              | 43 | 44           | 8  | 5              | 67 | 61             | 7                 |
| All races ... ...    | Hospital    | 203 | 147            | 124 | 118        | 104 | 66             | 49 | 43           | 71 | 61             | 50 | 49             | 48                |
|                      | Domiciliary | 18  | 16             | 130 | 129        | 5   | 8              | 45 | 44           | 8  | 5              | 68 | 61             | 8                 |

TABLE G Notified Births and Still Births for the year 1973 classified in wards as to Race, Legitimacy and Percentage of Total Births in Institutions.—(Corrected)

| WARDS  | WHITE      |         |              |         | NON-WHITE |         |            |         | TOTALS       |         |       |         | STILL-BIRTHS |        |           |        | Percentage of total births, including still-births, occurring in institutions. |              |               |        |           |     |     |     |
|--|------------|---------|--------------|---------|-----------|---------|------------|---------|--------------|---------|-------|---------|--------------|--------|-----------|--------|--|--------------|---------------|--------|-----------|-----|-----|-----|
|  | Legitimate |         | Illegitimate |         | Total     |         | Legitimate |         | Illegitimate |         | Total |         | White        |        | Non-White |        | Total  |              | still-births. |        |           |     |     |     |
|  | Males      | Females | Males        | Females | Males     | Females | Males      | Females | Males        | Females | Males | Females | Total        | White  | Non-White | Total  | Legitimate   | Illegitimate | Total         | White  | Non-White |     |     |     |
| 1.   | 60         | 66      | 2            | 1       | 62        | 66      | 128        | 61      | 115          | 3       | 7     | 17      | 15           | 17     | 22        | 39     | 128  | 39           | 167           | 3      | 3         | 99  | 90  |     |
| 2.   | 53         | 60      | 1            | 1       | 54        | 61      | 115        | 3       | 1            | 18      | 11    | 21      | 12           | 33     | 115       | 33     | 148  | 33           | 3             | 3      | 100       | 97  |     |     |
| 3.   | 128        | 98      | 9            | 8       | 137       | 106     | 243        | 2       | 11           | 15      | 13    | 15      | 16           | 28     | 243       | 28     | 271  | 4            | 1             | 5      | 99        | 93  |     |     |
| 4.   | 69         | 43      | 6            | 3       | 75        | 46      | 121        | 137     | 91           | 32      | 32    | 169     | 123          | 292    | 121       | 292    | 413  | 2            | 3             | 3      | 8         | 100 |     |     |
| 5.   | 136        | 129     | 9            | 11      | 144       | 140     | 284        | 4       | 6            | 12      | 13    | 16      | 18           | 34     | 284       | 34     | 318  | 4            | 2             | 3      | 9         | 98  |     |     |
| 6.   | 21         | 21      | 5            | 3       | 26        | 24      | 50         | 95      | 74           | 35      | 58    | 130     | 132          | 262    | 50        | 262    | 312  | 2            | 2             | 3      | 5         | 96  |     |     |
| 7.   | 3          | 2       | 2            | 5       | 2         | 7       | 5          | 5       | 5            | 3       | 5     | 5       | 8            | 13     | 7         | 13     | 20   | 7            | 100           | 77     | 78        |     |     |     |
| 8.   | 52         | 58      | 8            | 6       | 60        | 64      | 124        | 456     | 414          | 197     | 170   | 653     | 584          | 1 237  | 124       | 1 237  | 1 361  | 1            | 12            | 3      | 16        | 94  |     |     |
| 9.   | 206        | 186     | 8            | 20      | 214       | 206     | 420        | 429     | 435          | 265     | 246   | 694     | 681          | 1 375  | 420       | 1 375  | 1 795  | 4            | 20            | 13     | 37        | 97  |     |     |
| 10.  | 153        | 139     | 17           | 18      | 170       | 157     | 327        | 5       | 6            | 5       | 6     | 10      | 12           | 22     | 327       | 22     | 349  | 2            | 2             | 2      | 97        | 86  |     |     |
| 11.  | 102        | 85      | 1            | 6       | 103       | 91      | 194        | 2       | 1            | 10      | 1     | 12      | 2            | 14     | 194       | 14     | 208  | 2            | 1             | 3      | 100       | 100 |     |     |
| 12.  | 73         | 69      | 2            | 1       | 75        | 70      | 145        | 5       | 2            | 4       | 6     | 9       | 8            | 17     | 145       | 17     | 162  | 1            | 1             | 98     | 59        |     |     |     |
| 13.  | 163        | 152     | 12           | 5       | 175       | 157     | 332        | 3 669   | 3 505        | 2 348   | 2 290 | 6 017   | 5 795        | 11 812 | 11 812    | 12 144 | 4  | 137          | 97            | 238    | 98        |     |     |     |
| 14.  | 127        | 104     | 71           | 63      | 198       | 167     | 365        | 61      | 56           | 29      | 17    | 90      | 73           | 163    | 365       | 163    | 528  | 2            | 1             | 5      | 99        | 69  |     |     |
| 15.  | 147        | 133     | 31           | 25      | 178       | 158     | 336        | 120     | 115          | 30      | 29    | 150     | 144          | 294    | 336       | 294    | 630  | 2            | 2             | 4      | 98        | 68  |     |     |
| 16.  | 176        | 177     | 10           | 6       | 186       | 183     | 369        | 176     | 183          | 132     | 120   | 308     | 303          | 611    | 369       | 611    | 980  | 2            | 6             | 6      | 14        | 97  |     |     |
| 17.  | 105        | 104     | 7            | 4       | 112       | 108     | 220        | 536     | 508          | 477     | 493   | 1 013   | 1 001        | 2 014  | 220       | 2 014  | 2 234  | 2            | 22            | 13     | 37        | 97  |     |     |
| Not allocated<br>(unascertained<br>addresses)          |            |         |              |         |           |         |            |         |              |         |       |         |              |        |           |        |  |              |               |        |           |     |     |     |
| TOTAL  |            |         |              | 1 773   | 1 626     | 201     | 180        | 1 974   | 1 806        | 3 780   | 5 705 | 5 408   | 3 622        | 3 526  | 9 327     | 8 934  | 18 261   | 3 780        | 18 261        | 22 041 | 32        | 1   | 206 | 151 |
| Births in Cape<br>Town which did<br>not belong thereto |            |         |              | 918     | 915       | 20      | 21         | 938     | 936          | 1 874   | 489   | 456     | 372          | 347    | 861       | 803    | 1 664  | 1 874        | 1 664         | 3 538  | 12        | 1   | 24  | 31  |
| * Langa  |            |         |              |         |           |         |            |         |              |         |       |         |              |        |           |        |  |              |               |        |           |     |     |     |
| * Guguletu Town-<br>ship                               |            |         |              |         |           |         |            |         |              |         |       |         |              |        |           |        |  |              |               |        |           |     |     |     |

\* Included in Main table.

TABLE H Births in Institutions, 1973

## LIVE - AND STILL-BIRTHS

| Institution                  | Total Births. |           | Births belonging to Cape Town |           | Births not belonging to Cape Town (outward transfers). |           |
|------------------------------|---------------|-----------|-------------------------------|-----------|--|-----------|
|                              | White         | Non-White | White                         | Non-White | White  | Non-White |
| Peninsula Maternity Hospital |               | 4 972     |                               | 4 717     |  | 255       |
| Somerset Hospital            |               | 2 993     |                               | 2 808     |  | 185       |
| St. Monica's Home            |               | 1 445     |                               | 1 165     |  | 280       |
| Mowbray Maternity Hospital   | 2 698         |           | 2 007                         |           | 691  |           |
| Groote Schuur Hospital       |               | 3 584     |                               | 2 658     |  | 926       |
| Booth Memorial Hospital      | 762           |           | 548                           |           | 214  |           |
| Kingsbury Nursing Home       |               |           |                               |           |  |           |
| Military Hospital            | 2 096         |           | 1 121                         |           | 975  |           |
| Vincent Pallotti Hospital    |               | 522       |                               | 483       |  | 39        |
| Other Institutions           |               |           |                               |           |  |           |
| TOTAL                        | 5 556         | 13 516    | 3 676                         | 11 831    | 1 880  | 1 685     |

TABLE I Discontinued

TABLE J Births, Deaths, Natural Increase, and Infant Deaths, and corresponding rates, for the year 1973.

| Race                                  | Notified<br>Births |      |        | Deaths |        |      | Natural<br>Increase |      | Deaths under<br>one year |      |
|---------------------------------------|--------------------|------|--------|--------|--------|------|---------------------|------|--------------------------|------|
|                                       | Number             | Rate | Number | Rate   | Number | Rate | Number              | Rate | Number                   | Rate |
| White:<br>Corrected                   | 3 780              | 15,6 | 2 281  | 9,40   | 1 499  | 6,2  | 48                  | 12,7 |                          |      |
| Coloured:<br>Corrected                | 14 080             | 32,9 | 3 256  | 7,61   | 10 824 | 25,3 | 562                 | 39,9 |                          |      |
| Bantu:<br>Corrected                   | 3 931              | 43,6 | 1 052  | 11,66  | 2 879  | 31,9 | 268                 | 68,2 |                          |      |
| Asiatics:<br>Corrected                | 250                | 24,5 | 55     | 5,40   | 195    | 19,1 | 7                   | 28,0 |                          |      |
| All Non-White:<br>Corrected           | 18 261             | 34,6 | 4 363  | 8,26   | 13 898 | 26,3 | 837                 | 45,8 |                          |      |
| All races:<br>Corrected               | 22 041             | 28,6 | 6 644  | 8,62   | 15 397 | 20,0 | 885                 | 40,2 |                          |      |
| * Bantu resident in Langa Township    | 666                | 21,5 | 316    | 10,2   | 350    | 11,3 | 52                  | 78,1 |                          |      |
| * Bantu resident in Guguletu Township | 3 042              | 58,8 | 642    | 12,4   | 2 400  | 46,4 | 201                 | 66,1 |                          |      |

\* Included in above totals.

All rates are per 1 000 population except the infant mortality rate, which is expressed per 1000 live-births.

TABLE K Infant Mortality Rates per 1,000 by Causes

(Corrected)

## INFANTS UNDER ONE YEAR OF AGE

| Period   | Common infectious diseases |           | Tuberculous diseases |           | Syphilis |           | Bronchitis and pneumonia |           | Diarrhoea and enteritis |           | Developmental diseases |           | Miscellaneous diseases (remainder) |           | Total mortality (all causes) |           |       |
|--|----------------------------|-----------|----------------------|-----------|----------|-----------|--------------------------|-----------|-------------------------|-----------|------------------------|-----------|------------------------------------|-----------|------------------------------|-----------|-------|
|  | White                      | Non-White | White                | Non-White | White    | Non-White | White                    | Non-White | White                   | Non-White | White                  | Non-White | White                              | Non-White | White                        | Non-White |       |
| Quinquennium<br>1946 – 1947<br>to<br>1950 – 1951 |                            |           |                      |           |          |           |                          |           |                         |           |                        |           |                                    |           |                              |           |       |
| 1951 – 1952<br>to<br>1956                        | 0,5                        | 2,8       | 0,8                  | 8,7       |          |           | 2,5                      | 2,8       | 22,5                    | 3,8       | 30,5                   | 15,8      | 28,9                               | 5,9       | 13,2                         | 29,6      | 109,1 |
| 1957 – 1961                                      | 0,1                        | 1,0       | 0,2                  | 4,2       | 0,5      | 2,3       | 15,1                     | 2,3       | 42,9                    | 15,0      | 25,8                   | 5,1       | 14,2                               | 25,6      | 21,8                         | 103,6     |       |
| 1962 – 1966                                      | 0,2                        | 2,2       | 0,4                  | 1,3       | 0,2      | 2,4       | 13,2                     | 1,0       | 31,6                    | 13,5      | 23,4                   | 5,0       | 14,9                               | 85,9      | 85,9                         | 85,9      |       |
| 1967 – 1971                                      | 0,1                        | 1,5       | 0,5                  | 0,4       | 0,2      | 1,6       | 11,8                     | 1,3       | 21,9                    | 13,0      | 27,1                   | 3,9       | 14,4                               | 20,0      | 78,0                         | 78,0      |       |
| 1969 – 1973                                      | 1,2                        | 1,2       | 0,3                  | 0,3       | 0,1      | 0,3       | 9,4                      | 0,8       | 16,8                    | 10,2      | 22,4                   | 2,7       | 8,9                                | 15,3      | 59,8                         | 59,8      |       |
| Year   |                            |           |                      |           |          |           |                          |           |                         |           |                        |           |                                    |           |                              |           |       |
| 1964   | 0,3                        | 1,5       |                      |           | 0,4      | 1,3       | 11,0                     | 1,1       | 20,6                    | 13,2      | 26,9                   | 3,0       | 16,8                               | 18,9      | 77,6                         | 77,6      |       |
| 1965   |                            | 2,3       |                      |           | 0,7      | 1,5       | 10,6                     | 1,2       | 21,8                    | 13,4      | 29,0                   | 3,5       | 13,9                               | 19,4      | 78,5                         | 78,5      |       |
| 1966   | 0,3                        | 2,3       |                      |           | 0,3      | 0,1       | 0,5                      | 11,9      | 1,9                     | 20,6      | 10,2                   | 30,0      | 3,8                                | 12,5      | 16,6                         | 77,7      | 77,7  |
| 1967   | 0,3                        | 2,2       |                      |           | 0,9      | 0,4       | 1,1                      | 12,5      | 0,8                     | 20,1      | 10,3                   | 29,7      | 2,1                                | 13,0      | 14,8                         | 78,9      | 78,9  |
| 1968*  |                            | 1,4       |                      |           | 0,3      | 0,5       | 1,3                      | 9,3       | 0,5                     | 14,1      | 10,4                   | 22,2      | 2,6                                | 9,7       | 14,9                         | 57,6      | 57,6  |
| 1969   |                            | 1,3       |                      |           | 0,6      | 0,3       | 1,5                      | 9,3       | 0,8                     | 16,2      | 12,7                   | 21,9      | 2,8                                | 8,3       | 18,0                         | 58,0      | 58,0  |
| 1970   |                            | 1,3       |                      |           | 0,2      | 0,3       | 1,2                      | 8,5       | 1,2                     | 19,9      | 9,1                    | 20,0      | 4,3                                | 8,7       | 15,8                         | 58,8      | 58,8  |
| 1971   |                            | 1,2       |                      |           | 0,3      | 0,2       | 1,9                      | 7,3       | 0,7                     | 13,9      | 8,6                    | 18,2      | 1,6                                | 4,6       | 12,8                         | 45,6      | 45,6  |
| 1972   |                            | 0,8       |                      |           | 0,3      | 0,7       | 7,9                      | 10,0      | 9,5                     | 14,5      | 2,4                    | 4,7       | 13,0                               | 38,1      | 38,1                         | 38,1      |       |
| 1973   | 1,6                        | 0,3       |                      |           | 0,4      | 0,4       | 9,1                      | 0,3       | 11,7                    | 9,3       | 15,4                   | 3,2       | 7,3                                | 12,7      | 45,8                         | 45,8      |       |

\* Rates based on notified births from 1968.

TABLE K Continued

## INFANTS FROM 1 TO 2 YEARS OF AGE\*

| Period  | Common infectious diseases |           | Tuberculous diseases |           | Syphilis |           | Bronchitis and pneumonia |           | Diarrhoea and enteritis |           | Developmental diseases |           | Miscellaneous diseases (remainder) |           | Total mortality (all causes) |           |
|---|----------------------------|-----------|----------------------|-----------|----------|-----------|--------------------------|-----------|-------------------------|-----------|------------------------|-----------|------------------------------------|-----------|------------------------------|-----------|
|   | White                      | Non-White | White                | Non-White | White    | Non-White | White                    | Non-White | White                   | Non-White | White                  | Non-White | White                              | Non-White | White                        | Non-White |
| Quinquennium<br>1946 – 1947<br>to<br>1950 – 1951<br>1951 – 1952<br>to<br>1956 | 0,3                        | 3,0       | 0,7                  | 12,7      |          |           | 0,6                      | 9,6       | 0,6                     | 13,3      |                        | 0,1       | 0,8                                | 4,1       | 8,0                          | 44,0      |
| 1957 – 1961<br>1962 – 1966<br>1967 – 1971<br>1969 – 1973                      | 0,1                        | 1,1       | 0,5                  | 6,1       | 0,1      | 0,4       | 4,6                      | 0,6       | 0,2                     | 0,2       | 0,6                    | 1,1       | 4,3                                | 3,1       | 33,8                         |           |
|   |                            |           |                      |           | 0,1      | 0,5       | 4,3                      | 0,2       | 9,4                     | 0,2       | 0,6                    | 1,3       | 5,0                                | 2,3       | 22,5                         |           |
|   |                            |           |                      |           | 0,0      | 0,0       | 2,9                      | 0,1       | 4,9                     | 0,4       | 0,3                    | 0,8       | 7,1                                | 2,1       | 18,0                         |           |
|   |                            |           |                      |           | 0,6      | 0,5       | 2,1                      | 0,1       | 3,3                     | 0,3       | 0,4                    | 0,4       | 4,3                                | 1,1       | 12,2                         |           |
|   |                            |           |                      |           | 0,4      | 0,4       | 2,7                      | 0,1       | 2,7                     | 0,4       | 0,2                    | 0,6       | 3,0                                | 1,3       | 9,5                          |           |
|   |                            |           |                      |           | 0,3      | 0,3       | 2,1                      | 0,3       |                         |           |                        |           |                                    |           |                              |           |
| Year  |                            |           |                      |           |          |           |                          |           |                         |           |                        |           |                                    |           |                              |           |
| 1964  | 0,3                        | 1,4       |                      |           | 0,6      | 2,8       |                          |           | 5,5                     | 0,8       | 0,2                    | 0,2       | 7,2                                | 1,7       | 17,7                         |           |
| 1965  | 0,8                        | 2,9       |                      |           | 0,5      | 2,5       |                          |           | 4,2                     | 0,3       | 0,2                    | 0,3       | 7,7                                | 2,2       | 18,0                         |           |
| 1966  | 0,3                        | 1,3       |                      |           | 0,4      | 2,4       |                          |           | 2,9                     | 0,3       | 0,3                    | 0,3       | 7,7                                | 2,1       | 15,1                         |           |
| 1967  | 0,3                        | 1,3       |                      |           | 0,5      | 3,7       |                          |           | 3,6                     | 0,8       | 0,8                    | 0,8       | 6,4                                | 1,1       | 16,3                         |           |
| 1968  | 0,3                        | 1,4       |                      |           | 0,4      | 2,3       |                          |           | 3,2                     | 0,4       | 0,3                    | 0,4       | 4,7                                | 0,5       | 12,4                         |           |
| 1969  | 0,4                        | 1,4       |                      |           | 0,2      | 2,9       |                          |           | 3,0                     | 0,5       | 0,3                    | 0,3       | 4,3                                | 1,3       | 12,1                         |           |
| 1970  | 0,9                        | 0,9       |                      |           | 0,3      | 2,8       |                          |           | 3,4                     | 0,5       | 0,4                    | 0,4       | 3,7                                | 2,1       | 11,4                         |           |
| 1971  | 1,4                        | 0,4       |                      |           | 0,2      | 1,7       |                          |           | 3,1                     | 0,5       | 0,3                    | 0,3       | 2,2                                | 0,7       | 9,0                          |           |
| 1972  | 0,8                        | 0,3       |                      |           | 0,5      | 0,9       |                          |           | 1,1                     | 0,5       | 0,1                    | 0,1       | 2,3                                | 1,2       | 5,6                          |           |
| 1973  | 1,2                        | 0,2       |                      |           | 0,7      | 2,0       |                          |           | 3,1                     | 0,1       | 0,1                    | 0,1       | 2,6                                | 1,2       | 9,2                          |           |

c' Rates based on notified births from 1968

\* The rate for the year is calculated on the births (less the deaths under one year) in the previous year.

TABLE L Estimated Populations and Vital Statistic Rates since 1946

| PERIODS             | Estimated Populations | Birth rates |           |           | Illegitimate births Percentage of total births |           |           | Death rates corrected for outward transfers |           |           | Natural increase rates |           |           | Infant mortality rates |           |           | Enteric fever death rates Corrected for outward transfers |           |           | Tuberculosis (all forms) death rates corrected for outward transfers |      |      |      |
|---------------------|-----------------------|-------------|-----------|-----------|--|-----------|-----------|---|-----------|-----------|------------------------|-----------|-----------|------------------------|-----------|-----------|---|-----------|-----------|--|------|------|------|
|                     |                       | White       |           | Non-White | Total  | White     | Non-White | Total                                       | White     | Non-White | Total                  | White     | Non-White | Total                  | White     | Non-White | Total   | White     | Non-White | Total  |      |      |      |
|                     |                       | White       | Non-White | Total     | White  | Non-White | Total     | White                                       | Non-White | Total     | White                  | Non-White | Total     | White                  | Non-White | Total     | White   | Non-White | Total     |  |      |      |      |
| <b>Quinquennium</b> |                       |             |           |           |  |           |           |   |           |           |                        |           |           |                        |           |           |   |           |           |  |      |      |      |
| " 1946-1947         | 1946-1947             | 19,92       | 43,26     | 32,60     | 2,95   | 23,95     | 17,91     | 9,76  | 17,20     | 13,82     | 10,16                  | 26,06     | 18,78     | 29,59                  | 109,12    | 87,34     | 0,01  | 0,05      | 0,03      | 0,57   | 4,50 | 2,71 |      |
| to 1950-1951        | 1951-1952             | 18,2        | 37,8      | 29,8      | 3,2  | 24,5      | 19,2      | 9,6   | 12,3      | 11,2      | 8,6                    | 25,5      | 18,6      | 25,3                   | 102,4     | 83,5      | 0,0   | 0,0       | 0,0       | 0,2  | 1,7  | 1,1  |      |
| to 1956             | 1957-1961             | 19,1        | 42,5      | 33,2      | 3,9  | 23,7      | 19,2      | 10,3  | 11,5      | 11,0      | 8,8                    | 31,0      | 22,1      | 21,8                   | 85,9      | 71,5      | 0,0   | 0,0       | 0,0       | 0,2  | 0,7  | 0,5  |      |
| 1962-1966           | 1967-1971             | 17,7        | 36,6      | 30,1      | 4,8  | 25,6      | 21,4      | 10,2  | 10,0      | 10,1      | 7,5                    | 26,7      | 20,0      | 20                     | 78        | 66        | 0,0   | 0,0       | 0,0       | 0,1  | 0,5  | 0,5  |      |
| " 1969-1973         | 1969-1973             | 17,7        | 36,1      | 30,1      | 8,2  | 30,1      | 25,8      | 9,7   | 9,3       | 9,4       | 8,1                    | 26,8      | 20,6      | 15                     | 60        | 51        | 0,0   | 0,0       | 0,0       | 0,4  | 0,4  | 0,5  |      |
| <b>YEAR</b>         |                       |             |           |           |  |           |           |   |           |           |                        |           |           |                        |           |           |   |           |           |  |      |      |      |
| 1945-1946           | 1945-1946             | 369410      | 19,69     | 43,79     | 32,15  | 3,36      | 24,23     | 18,10                                       | 9,62      | 19,99     | 15,00                  | 10,07     | 23,80     | 17,15                  | 37,61     | 109,40    | 88,73   | 0,02      | 0,04      | 0,74   | 5,98 | 3,45 |      |
| 1946-1947           | 181550                | 198610      | 21,93     | 45,69     | 34,36  | 3,10      | 23,03     | 17,01                                       | 9,44      | 18,64     | 14,27                  | 27,48     | 27,05     | 20,09                  | 27,46     | 107,97    | 84,05   | 0,03      | 0,12      | 0,08   | 0,71 | 3,04 |      |
| 1947-1948           | 182700                | 208000      | 20,69     | 42,42     | 32,29  | 3,00      | 23,11     | 17,06                                       | 10,52     | 19,04     | 15,09                  | 10,17     | 23,38     | 17,20                  | 37,06     | 122,20    | 97,51   | 0,03      | 0,04      | 0,03   | 0,66 | 5,44 |      |
| 1948-1949           | 183870                | 217840      | 20,29     | 44,21     | 33,27  | 2,96      | 23,89     | 18,07                                       | 9,60      | 17,38     | 13,38                  | 10,69     | 26,83     | 19,44                  | 29,29     | 100,88    | 88,37   | 0,01      | 0,04      | 0,02   | 0,45 | 4,69 |      |
| 1949-1950           | 185040                | 218170      | 18,70     | 43,01     | 32,13  | 2,69      | 24,36     | 18,71                                       | 9,68      | 16,44     | 13,42                  | 9,02      | 18,71     | 18,71                  | 29,56     | 101,47    | 83,00   | 0,03      | 0,01      | 0,57   | 3,96 | 2,44 |      |
| 1950-1951           | 186790                | 255510      | 44,2300   | 18,02     | 41,40  | 30,16     | 2,96      | 24,08                                       | 19,42     | 9,55      | 12,00                  | 8,47      | 26,43     | 18,56                  | 23,91     | 104,20    | 84,07   | 0,02      | 0,01      | 0,46   | 3,47 | 2,16 |      |
| 1951-1952           | 187540                | 261280      | 44,8820   | 18,27     | 40,94  | 31,26     | 3,11      | 25,40                                       | 19,86     | 9,88      | 14,99                  | 12,82     | 8,39      | 25,95                  | 18,43     | 28,78     | 106,26  | 87,26     | 0,01      | 0,26   | 0,21 | 2,97 | 1,81 |
| 1952-1953           | 188300                | 267220      | 45,5520   | 18,37     | 39,42  | 30,62     | 3,38      | 24,58                                       | 19,26     | 9,33      | 13,12                  | 11,54     | 9,04      | 25,30                  | 19,08     | 21,29     | 101,35  | 81,32     | 0,01      | 0,00   | 0,21 | 2,07 | 1,29 |
| 1953-1954           | 189070                | 273310      | 46,2380   | 18,23     | 37,86  | 29,86     | 3,59      | 24,55                                       | 19,30     | 9,03      | 12,25                  | 11,09     | 8,86      | 25,61                  | 18,77     | 30,43     | 100,55  | 83,71     | 0,01      | 0,00   | 0,24 | 1,77 | 1,15 |
| 1954-1955           | 189830                | 279580      | 46,9410   | 17,62     | 36,95  | 29,26     | 2,65      | 23,66                                       | 18,59     | 9,15      | 11,52                  | 10,60     | 8,47      | 25,43                  | 18,66     | 21,45     | 100,80  | 82,52     | 0,02      | 0,01   | 0,17 | 1,21 | 0,80 |
| 1955                | 190600                | 286010      | 47,6610   | 18,6      | 34,3   | 28,3      | 3,0       | 24,2  | 18,9      | 9,0       | 10,3                   | 10,2      | 8,6       | 23,9                   | 18,0      | 24,5      | 103,0   | 83,4      | 0,1       | 0,08   | 0,1  | 0,8  | 0,5  |
| 1956                | 191380                | 292620      | 48,4000   | 18,4      | 36,5   | 29,8      | 3,6       | 24,7  | 19,8      | 10,0      | 10,6                   | 10,4      | 8,5       | 25,9                   | 19,4      | 23,5      | 95,5  | 79,3      | 0,0       | 0,0  | 0,2  | 0,9  | 0,6  |
| 1957                | 192150                | 299420      | 49,1570   | 18,8      | 34,4   | 28,7      | 4,0       | 23,7  | 19,0      | 9,7       | 9,9                    | 9,8       | 9,2       | 24,4                   | 18,8      | 23,1      | 97,6  | 80,2      | 0,0       | 0,0  | 0,2  | 0,7  | 0,5  |
| 1958                | 192930                | 306390      | 499320    | 19,2      | 34,3   | 28,9      | 4,1       | 23,8  | 19,2      | 10,0      | 8,6                    | 9,1       | 9,2       | 25,7                   | 19,8      | 17,5      | 80,2  | 65,5      | 0,0       | 0,0  | 0,2  | 0,5  | 0,4  |
| 1959                | 193710                | 338020      | 531730    | 18,4      | 38,3   | 31,1      | 4,0       | 23,2  | 19,0      | 10,9      | 10,5                   | 10,7      | 7,3       | 24,7                   | 18,7      | 25        | 81  | 69        | 0,0       | 0,0  | 0,6  | 0,6  | 0,4  |
| 1960                | 195650                | 544460      | 18,9      | 36,4      | 30,1   | 3,8       | 23,3      | 19,0  | 10,2      | 9,5       | 9,8                    | 8,7       | 26,8      | 20,3                   | 20        | 76        | 64  | 0,1       | 0,0       | 0,6  | 0,6  | 0,4  |      |
| 1961                | 197910                | 360880      | 558790    | 18,9      | 35,2   | 29,4      | 3,9       | 23,4  | 19,0      | 10,4      | 8,7                    | 9,3       | 8,5       | 26,5                   | 20,1      | 22        | 70  | 59        | 0,1       | 0,0  | 0,5  | 0,5  | 0,4  |
| 1962                | 200210                | 377150      | 557760    | 18,1      | 36,2   | 29,9      | 4,7       | 24,2  | 20,1      | 10,1      | 10,3                   | 10,2      | 7,9       | 25,9                   | 19,6      | 23        | 86  | 73        | 0,0       | 0,0  | 0,1  | 0,5  | 0,4  |
| 1963                | 202530                | 388430      | 590960    | 18,3      | 37,3   | 30,8      | 4,8       | 25,4  | 21,2      | 10,6      | 10,4                   | 7,7       | 7,7       | 27,0                   | 20,4      | 19        | 78  | 66        | 0,0       | 0,0  | 0,1  | 0,5  | 0,3  |
| 1964                | 204880                | 405130      | 610010    | 16,8      | 38,4   | 31,2      | 4,6       | 27,0  | 22,9      | 10,2      | 10,6                   | 10,5      | 6,6       | 27,8                   | 20,7      | 19        | 78  | 68        | 0,0       | 0,0  | 0,5  | 0,5  | 0,3  |
| 1965                | 207250                | 427530      | 634780    | 18,0      | 35,1   | 29,5      | 5,9       | 28,1  | 23,7      | 10,5      | 9,8                    | 10,0      | 7,5       | 25,4                   | 19,5      | 17        | 78  | 66        | 0,0       | 0,0  | 0,1  | 0,4  | 0,3  |
| 1966                | 209650                | 441110      | 650760    | 18,0      | 31,6   | 27,2      | 8,3       | 29,9  | 25,3      | 10,0      | 9,9                    | 10,0      | 8,0       | 21,7                   | 17,3      | 15        | 79  | 66        | 0,0       | 0,0  | 0,5  | 0,4  | 0,3  |
| 1967                | 212080                | 444920      | 657000    | 18,1      | 38,4   | 31,8      | 9,4       | 24,1  | 20,1      | 10,2      | 9,3                    | 9,6       | 7,9       | 29,1                   | 22,2      | 15        | 80  | 58        | 0,0       | 0,0  | 0,0  | 0,4  | 0,3  |
| 1968                | 214540                | 462000      | 676540    | 18,1      | 37,4   | 31,4      | 7,8       | 28,6  | 24,7      | 10,3      | 9,3                    | 9,7       | 8,1       | 28,0                   | 21,7      | 18        | 58  | 51        | 0,0       | 0,0  | 0,0  | 0,5  | 0,3  |
| 1969                | 217030                | 477200      | 694230    | 19,2      | 35,2   | 30,2      | 8,0       | 31,2  | 26,6      | 10,6      | 9,6                    | 9,9       | 8,6       | 25,6                   | 20,3      | 16        | 59  | 50        | 0,0       | 0,0  | 0,4  | 0,4  | 0,3  |
| 1970                | 235550                | 500210      | 735760    | 18,3      | 35,5   | 30,0      | 7,5       | 33,4  | 28,3      | 9,0       | 7,8                    | 8,2       | 7,2       | 27,6                   | 21,7      | 13        | 46  | 39        | 0,0       | 0,0  | 0,0  | 0,4  | 0,2  |
| 1971                | 239050                | 513410      | 752460    | 17,1      | 35,1   | 29,4      | 9,2       | 37,3  | 32,1      | 9,0       | 7,4                    | 7,9       | 8,1       | 27,7                   | 21,5      | 13        | 38  | 34        | 0,0       | 0,1  | 0,4  | 0,3  | 0,3  |
| 1972                | 242600                | 528180      | 770780    | 15,6      | 34,6   | 28,6      | 10,1      | 39,1  | 34,2      | 9,4       | 8,3                    | 8,6       | 6,2</     |                        |           |           |   |           |           |  |      |      |      |

TABLE M. Vital Statistic Rates for Various Centres.  
(LATEST AVAILABLE FIGURES)

## REPORT OF THE MEDICAL OFFICER OF HEALTH

106.

TABLE N Notification of Infectious Diseases Classified for Month of Notification, 1973

W. - White

O. - Non - White

|           | Tuberculosis respiratory |     |       | Tuberculosis other forms |     |       | Enteric |     |       | Diphtheria |    |       | Scarlet Fever |    |       | Erysipelas |    |       | Cerebrospinal Fever |    |       | Infective Encephalitis |    |       |
|-----------|--------------------------|-----|-------|--------------------------|-----|-------|---------|-----|-------|------------|----|-------|---------------|----|-------|------------|----|-------|---------------------|----|-------|------------------------|----|-------|
|           | W.                       | O.  | Total | W.                       | O.  | Total | W.      | O.  | Total | W.         | O. | Total | W.            | O. | Total | W.         | O. | Total | W.                  | O. | Total | W.                     | O. | Total |
| January   | 4                        | 101 | 105   | 29                       | 29  | 3     | 3       |     |       | 1          | 2  | 2     |               |    |       | 7          | 7  | 7     | 1                   | 1  | 1     |                        |    |       |
| February  | 3                        | 107 | 110   | 1                        | 23  | 24    |         |     |       | 1          | 1  | 2     |               |    |       | 3          | 3  | 3     |                     |    |       |                        |    |       |
| March     | 7                        | 120 | 127   | 21                       | 21  | 1     | 1       |     |       | 1          | 1  | 2     |               |    |       | 3          | 3  | 3     |                     |    |       |                        |    |       |
| April     | 2                        | 100 | 102   | 13                       | 13  | 1     |         |     |       | 1          | 1  | 1     |               |    |       | 3          | 3  | 3     |                     |    |       |                        |    |       |
| May       | 4                        | 145 | 149   | 22                       | 22  | 1     | 1       |     |       | 2          | 1  | 1     |               |    |       | 1          | 1  | 1     |                     |    |       |                        |    |       |
| June      | 4                        | 109 | 113   | 28                       | 28  | 1     | 1       |     |       | 1          | 1  | 2     |               |    |       | 1          | 3  | 4     |                     |    |       |                        |    |       |
| July      | 8                        | 126 | 134   | 24                       | 24  | 1     | 1       |     |       | 1          | 1  | 2     |               |    |       | 8          | 8  | 8     |                     |    |       |                        |    |       |
| August    | 5                        | 148 | 153   | 74                       | 74  | 2     | 2       |     |       | 1          | 1  | 2     |               |    |       | 1          | 4  | 5     |                     |    |       |                        |    |       |
| September | 3                        | 96  | 99    | 30                       | 30  | 1     | 1       |     |       | 1          | 1  | 2     |               |    |       | 1          | 2  | 3     |                     |    |       |                        |    |       |
| October   | 11                       | 138 | 149   | 1                        | 38  | 39    |         |     |       | 1          | 1  | 2     |               |    |       | 1          | 3  | 4     |                     |    |       |                        |    |       |
| November  | 100                      | 100 | 1     | 44                       | 45  |       |         |     |       | 1          | 1  | 2     |               |    |       | 1          | 1  | 1     |                     |    |       |                        |    |       |
| December  | 88                       | 88  |       | 20                       | 20  |       |         |     |       | 1          | 1  | 1     |               |    |       | 1          | 3  | 4     |                     |    |       |                        |    |       |
| YEAR      | 51                       | 1   | 378   | 1                        | 429 | 3     | 366     | 369 | 10    | 10         | 3  | 3     | 6             | 7  | 9     | 16         |    |       | 5                   | 41 | 46    | 3                      | 3  | 3     |

| PERIOD    | Acute Poliomyelitis |    |       | Ophthalmia |    |       | Puerperal Fever |    |       | Tetanus |    |       | Leprosy |    |       | Whooping cough |    |       | Viral Hepatitis |     |       | Typhus (Tick Borne) |    |       |
|-----------|---------------------|----|-------|------------|----|-------|-----------------|----|-------|---------|----|-------|---------|----|-------|----------------|----|-------|-----------------|-----|-------|---------------------|----|-------|
|           | W.                  | O. | Total | W.         | O. | Total | W.              | O. | Total | W.      | O. | Total | W.      | O. | Total | W.             | O. | Total | W.              | O.  | Total | W.                  | O. | Total |
| January   |                     |    |       | 2          | 2  | 1     |                 |    |       |         |    |       |         |    | 1     | 4              | 5  | 3     | 7               | 10  |       |                     |    |       |
| February  |                     |    |       | 2          | 2  | 1     |                 |    |       |         |    |       |         |    | 2     | 2              | 2  | 1     | 8               | 9   |       |                     |    |       |
| March     |                     |    |       | 1          | 1  |       |                 |    |       |         |    |       |         |    | 1     | 3              | 4  | 3     | 5               | 8   |       |                     |    |       |
| April     |                     |    |       | 4          | 4  |       |                 |    |       |         |    |       |         |    | 1     | 1              | 1  | 10    | 5               | 10  |       |                     |    |       |
| May       | 2                   | 2  |       | 2          | 2  |       |                 |    |       |         |    |       |         |    | 3     | 4              | 7  | 3     | 4               | 7   |       |                     |    |       |
| June      |                     |    |       | 5          | 5  |       |                 |    |       |         |    |       |         |    | 1     | 1              | 1  | 10    | 5               | 15  |       |                     |    |       |
| July      |                     |    |       | 1          | 1  |       |                 |    |       |         |    |       |         |    | 5     | 5              | 5  | 5     | 5               | 10  |       |                     |    |       |
| August    | 1                   | 1  |       | 1          | 1  |       |                 |    |       |         |    |       |         |    | 2     | 2              | 2  | 1     | 6               | 7   |       |                     |    |       |
| September |                     |    |       |            |    |       |                 |    |       |         |    |       |         |    | 9     | 5              | 14 | 9     | 5               | 14  |       |                     |    |       |
| October   |                     |    |       |            |    |       |                 |    |       |         |    |       |         |    | 2     | 2              | 2  | 7     | 2               | 9   |       |                     |    |       |
| November  | 1                   | 1  |       | 10         | 10 |       |                 |    |       |         |    |       |         |    | 1     | 1              | 2  | 2     | 4               | 6   |       |                     |    |       |
| December  |                     |    |       |            |    |       |                 |    |       |         |    |       |         |    | 3     | 19             | 22 | 48    | 64              | 112 |       |                     |    |       |
| YEAR      | 4                   | 4  |       | 36         | 36 | 1     | 1               | 3  | 3     |         |    |       |         |    | 5     | 41             | 46 | 3     | 1               | 1   |       |                     |    |       |

## REPORT OF THE MEDICAL OFFICER OF HEALTH

TABLE O Notification of Infectious Diseases Classified for Age-Groups, 1973

### D. - Non-White

W. - White

| Age-groups        | Tuberculosis respiratory |    |     | Tuberculosis other forms |      |    | Enteric |     |     | Diphtheria |    |    | Scarlet Fever |    |    | Erysipelas |    |    | Cerebrospinal Fever |    |    | Infective encephalitis |    |    |    |
|-------------------|--------------------------|----|-----|--------------------------|------|----|---------|-----|-----|------------|----|----|---------------|----|----|------------|----|----|---------------------|----|----|------------------------|----|----|----|
|                   | W.                       |    | O.  | W.                       |      | O. | W.      |     | O.  | W.         |    | O. | W.            |    | O. | W.         |    | O. | W.                  |    | O. | W.                     |    | O. |    |
|                   | M.                       | F. | M.  | M.                       | F.   | M. | M.      | F.  | M.  | M.         | F. | M. | M.            | F. | M. | F.         | M. | F. | M.                  | F. | M. | F.                     | M. | F. | M. |
| Under 1 yr.       |                          |    |     |                          |      |    |         |     |     |            |    |    |               |    |    |            |    |    |                     |    |    |                        |    |    |    |
| 1 — 2 "           | 18                       | 15 | 33  | 13                       | 3    | 16 | 1       | 1   | 1   | 2          | 1  | 6  | 1             | 5  | 1  | 1          | 1  | 1  | 1                   | 1  | 1  | 1                      | 1  | 1  | 1  |
| 2 — 4 "           | 19                       | 20 | 39  | 22                       | 19   | 41 | 112     | 45  | 65  | 11         | 2  | 3  | 7             | 3  | 7  | 5          | 15 | 4  | 7                   | 5  | 15 | 4                      | 2  | 6  | 1  |
| 5 — 9 "           | 1                        | 28 | 22  | 51                       | 45   | 53 | 98      | 18  | 21  | 39         | 2  | 2  | 1             | 2  | 1  | 2          | 5  | 1  | 3                   | 4  | 1  | 3                      | 4  | 1  | 1  |
| 10 — 14 "         | 1                        | 15 | 20  | 36                       | 18   | 21 | 39      | 21  | 18  | 21         | 2  | 2  | 1             | 2  | 1  | 2          | 5  | 1  | 3                   | 4  | 1  | 3                      | 4  | 1  | 1  |
| 15 — 24 "         | 9                        | 7  | 90  | 144                      | 9    | 5  | 14      | 250 | 9   | 14         | 2  | 2  | 1             | 1  | 1  | 1          | 1  | 1  | 1                   | 1  | 1  | 1                      | 1  | 1  | 1  |
| 25 — 34 "         | 2                        | 5  | 179 | 101                      | 287  | 13 | 11      | 24  | 1   | 2          | 3  | 1  | 1             | 1  | 1  | 1          | 1  | 1  | 1                   | 1  | 1  | 1                      | 1  | 1  | 1  |
| 35 — 44 "         | 5                        | 3  | 202 | 63                       | 273  | 2  | 6       | 8   | 224 | 1          | 6  | 2  | 9             | 1  | 1  | 1          | 1  | 1  | 1                   | 1  | 1  | 1                      | 1  | 1  | 1  |
| 45 — 54 "         | 5                        | 4  | 176 | 39                       | 98   | 2  | 2       | 4   | 45  | 2          | 2  | 1  | 3             | 1  | 1  | 1          | 1  | 1  | 1                   | 1  | 1  | 1                      | 1  | 1  | 1  |
| 55 — 64 "         | 3                        | 1  | 74  | 20                       | 98   | 2  | 2       | 4   | 5   | 1          | 2  | 1  | 3             | 1  | 1  | 1          | 1  | 1  | 1                   | 1  | 1  | 1                      | 1  | 1  | 1  |
| 65 — 74 "         | 3                        | 32 | 10  | 45                       | 5    | 2  | 1       | 1   | 1   | 1          | 1  | 1  | 1             | 1  | 1  | 1          | 1  | 1  | 1                   | 1  | 1  | 1                      | 1  | 1  | 1  |
| 75 — 84 "         | 1                        | 2  | 1   | 1                        | 1    | 2  | 1       | 1   | 1   | 1          | 1  | 1  | 1             | 1  | 1  | 1          | 1  | 1  | 1                   | 1  | 1  | 1                      | 1  | 1  | 1  |
| 85 years and over |                          |    | 1   | 2                        | 3    |    |         |     |     |            |    |    |               |    |    |            |    |    |                     |    |    |                        |    |    |    |
| Unknown           |                          |    |     |                          |      |    |         |     |     |            |    |    |               |    |    |            |    |    |                     |    |    |                        |    |    |    |
| Total             | 29                       | 22 | 874 | 504                      | 1429 | 2  | 1       | 178 | 188 | 369        | 6  | 4  | 10            | 3  | 3  | 6          | 3  | 4  | 2                   | 7  | 16 | 1                      | 2  | 3  | 1  |

| Age-groups        | Acute poliomyelitis |       |    | Ophthalmia |       |    | Puerperal fever |    |       | Tetanus |    |       | Leprosy |       |    | Whooping Cough |     |    | Viral Hepatitis |    |       | Typhus<br>(Tick Borne) |       |    |    |       |   |  |
|-------------------|---------------------|-------|----|------------|-------|----|-----------------|----|-------|---------|----|-------|---------|-------|----|----------------|-----|----|-----------------|----|-------|------------------------|-------|----|----|-------|---|--|
|                   | W.                  | M. F. | M. | F.         | Total |    |                 | W. | M. F. | M.      | F. | Total |         |       | W. | M. F.          | M.  | F. | Total           |    |       | W.                     | M. F. | M. | F. | Total |   |  |
|                   |                     |       |    |            | W.    | O. | Total           |    |       |         |    | W.    | O.      | Total |    |                |     |    | W.              | O. | Total | W.                     | O.    |    |    | Total |   |  |
| Under 1 yr        |                     |       |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 1—2 "             | 1                   | 2     | 1  |            | 1     | 3  |                 | 18 | 18    | 36      |    |       | 1       | 1     | 2  | 1              | 10  | 2  | 13              | 4  | 4     | 2                      | 2     | 6  | 15 |       |   |  |
| 2—4 "             | 2                   | 4     |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 5—9 "             | 5                   | 9     |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 10—14 "           | 10                  | 14    |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 15—24 "           | 15                  | 24    |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 25—34 "           | 25                  | 34    |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 35—44 "           | 35                  | 44    |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 45—54 "           | 45                  | 54    |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 55—64 "           | 55                  | 64    |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 65—74 "           | 65                  | 74    |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 75—84 "           | 75                  | 84    |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| 85 years and over |                     |       |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| Unknown           |                     |       |    |            |       |    |                 |    |       |         |    |       |         |       |    |                |     |    |                 |    |       |                        |       |    |    |       |   |  |
| Total             | 3                   | 1     | 4  |            | 18    | 18 | 36              | 1  | 2     | 12      | 7  | 22    | 21      | 27    | 31 | 33             | 112 | 1  | 1               | 2  | 1     | 3                      | 1     | 1  | 1  | 1     | 1 |  |

TABLE P: Notification of Infectious Diseases Classified for Wards, etc 1973  
W. - White.  
O. - Non-White.

| Wards of the City etc. | Tuberculosis       |       | Tuberculosis |    | Enteric Fever |       | Diphtheria |     | Scarlet Fever |    | Erysipelas |    | Cerebrospinal |    | Fever |       | Infective |    |              |  |
|------------------------|--------------------|-------|--------------|----|---------------|-------|------------|-----|---------------|----|------------|----|---------------|----|-------|-------|-----------|----|--------------|--|
|                        | respiratory system |       | other forms  |    | Total         |       | W.         |     | O.            |    | Total      |    | W.            |    | O.    |       | Total     |    | Encephalitis |  |
|                        | W.                 | O.    | Total        | W. | O.            | Total | W.         | O.  | W.            | O. | Total      | W. | O.            | W. | O.    | Total | W.        | O. |              |  |
| 1.                     | 4                  | 4     | 8            |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 2.                     | 10                 | 11    | 21           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 3.                     | 8                  | 9     | 17           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 4.                     | 12                 | 18    | 30           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 5.                     | 6                  | 9     | 15           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 6.                     | 3                  | 6     | 9            |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 7.                     | 19                 | 20    | 39           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 8.                     | 6                  | 44    | 50           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 9.                     | 6                  | 85    | 91           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 10.                    | 5                  | 4     | 9            |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 11.                    | 2                  | 3     | 5            |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 12.                    | 1                  | 1     | 1            |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 13.                    | 4                  | 1 016 | 1 020        |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 14.                    | 9                  | 18    | 27           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 15.                    | 1                  | 9     | 10           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 16.                    | 3                  | 34    | 37           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| 17.                    | 3                  | 96    | 99           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| Not Allocated          |                    | 4     | 4            |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| TOTAL                  | 51                 | 1 378 | 1 429        | 3  |               |       | 366        | 369 | 10            | 10 | 3          | 3  | 6             | 7  | 9     | 16    | 5         | 41 |              |  |
| Imported Infection     | 5                  | 622   | 627          |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| Direct Removals        | 36                 | 205   | 241          | 1  |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| * Guguletu             |                    | 360   | 152          |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |
| * Langa                |                    | 331   | 40           |    |               |       |            |     |               |    |            |    |               |    |       |       |           |    |              |  |

\* Included in Main Table

TABLE P: Notification of Infectious Diseases Classified for Wards, etc. 1973

W. - White

O. - Non-White.

(Continued)

| Wards of the City etc. | Acute Poliomyelitis |    | Ophthalmia |    | Puerperal Fever |       | Tetanus |    | Leprosy |    | Whooping Cough |       | Viral Hepatitis |    | Typhus (Tick Borne) |    |    |
|------------------------|---------------------|----|------------|----|-----------------|-------|---------|----|---------|----|----------------|-------|-----------------|----|---------------------|----|----|
|                        | W.                  | O. | Total      | W. | O.              | Total | W.      | O. | Total   | W. | O.             | Total | W.              | O. | Total               | W. | O. |
| 1.                     |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     | 4  | 4  |
| 2.                     |                     |    |            | 2  | 2               |       |         |    |         |    |                |       |                 |    | 1                   | 1  |    |
| 3.                     |                     |    |            | 1  | 1               |       |         |    |         |    |                |       |                 |    | 5                   | 5  |    |
| 4.                     |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    | 1                   | 1  |    |
| 5.                     |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    | 4                   | 4  |    |
| 6.                     |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    | 2                   | 2  |    |
| 7.                     |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| 8.                     | 1                   | 1  | 4          | 4  | 4               | 16    | 16      |    |         |    |                |       |                 |    |                     |    |    |
| 9.                     |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| 10.                    |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| 11.                    |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| 12.                    |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| 13.                    |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| 14.                    |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| 15.                    |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| 16.                    |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| 17.                    |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| Not Allocated . . .    |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| TOTAL                  | 4                   | 4  | 36         | 36 | 1               | 1     |         |    |         |    |                |       |                 |    |                     |    |    |
| Imported Infection     |                     |    |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| Direct Removals        | 27                  | 27 |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| * Guguletu             | 1                   | 1  |            |    |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |
| * Langa                |                     |    | 2          | 2  |                 |       |         |    |         |    |                |       |                 |    |                     |    |    |

\* Included in main Table

## INDEX

## A

## Page

|                               |            |
|-------------------------------|------------|
| Abattoirs                     | ... 7, 77  |
| Abortion                      | ... 27     |
| Accidents, deaths             | ... 20     |
| Accidents home                | ... 19     |
| Admissions, hospital          | ... 67     |
| Altitude                      | ... 5      |
| Ambulance                     | ... 70     |
| Animals slaughtered           | ... 77     |
| Ante-natal clinics            | ... 31     |
| Anthrax                       | ... 43     |
| Area                          | ... 5      |
| Asiatics                      | ... 6      |
| Atmospheric Pollution         | ... 83     |
| Attendances, child welfare    | ... 28     |
| Attendances, day nurseries    | ... 37     |
| Attendances, dental           | ... 42     |
| Attendances, family planning  | ... 32     |
| Attendances, school clinics   | ... 29, 36 |
| Attendances, tuberculosis     | ... 55     |
| Attendances, venereal disease | ... 63     |

## B

|                            |             |
|----------------------------|-------------|
| Bacterial testing          | ... 80      |
| Bakers                     | ... 76      |
| Bantu                      | ... 6       |
| Bantu Townships            | ... 8       |
| B. Coli tests              | ... 81      |
| B.C.G. vaccination         | ... 34      |
| Behaviour Advisory clinics | ... 36      |
| Births                     | ... 12      |
| Births Illegitimate        | ... 13      |
| Births institutions        | ... 14, 100 |
| Births multiple            | ... 13      |
| Births notification        | ... 12, 33  |
| Births rates               | ... 12      |
| Births still               | ... 13      |
| Bloemhof nursery           | ... 37      |
| Blood tests                | ... 31      |
| Board of Aid               | ... 87      |
| Boarding houses            | ... 76      |
| Bokmakierie creche         | ... 37      |
| Bonteheuwel creche         | ... 37      |
| Bronchitis                 | ... 47      |
| Brooklyn Chest Hospital    | ... 68      |
| Building plans             | ... 72      |
| Burials                    | ... 87      |
| Butchers                   | ... 76      |

## C

|                     |            |
|---------------------|------------|
| Cafda               | ... 86     |
| Cafes               | ... 76     |
| Cancer              | ... 50     |
| Cape Coloured       | ... 6      |
| Cape Flats          | ... 5      |
| Care Committee      | ... 60     |
| Carriers            | ... 43     |
| Causes of death     | ... 15     |
| Cerebrospinal fever | ... 43, 45 |
| Child welfare       | ... 28     |

## C

|                         |        |
|-------------------------|--------|
| Child welfare centres   | ... 29 |
| Child welfare sessions  | ... 29 |
| Citizens Housing league | ... 86 |
| City Hospital           | ... 67 |
| Cleansing station       | ... 70 |
| Climate                 | ... 5  |
| Cockroaches             | ... 73 |
| Contaminated foodstuffs | ... 71 |
| Community centres       | ... 86 |
| Corrections             | ... 8  |
| Cream                   | ... 81 |
| Creches                 | ... 36 |
| Cytology                | ... 32 |

## D

|                         |            |
|-------------------------|------------|
| Dairy Farms             | ... 79     |
| Day nurseries           | ... 36     |
| Deaths                  | ... 14, 91 |
| Deaths accidental       | ... 20     |
| Deaths age groups       | ... 17     |
| Deaths infants          | ... 21     |
| Deaths institutions     | ... 18     |
| Deaths Maternal         | ... 27     |
| Deaths occupation       | ... 19     |
| Deaths perinatal        | ... 26     |
| Deaths principal causes | ... 15     |
| Death rates             | ... 14, 18 |
| Death seasonal          | ... 16     |
| Death suicide           | ... 20     |
| Delivery vehicles       | ... 77     |
| Dental care             | ... 41     |
| Dental clinics          | ... 42, 68 |
| Demolitions             | ... 75     |
| Diarrhoea               | ... 48     |
| Diphtheria              | ... 43     |
| Disinfection            | ... 70     |
| District visiting       | ... 30     |
| Drainage                | ... 87     |
| Dried milk              | ... 30     |
| Dysentery               | ... 48     |

## E

|                          |            |
|--------------------------|------------|
| Eating houses            | ... 76     |
| Encephalitis             | ... 43, 45 |
| Enteric fever            | ... 43     |
| Enteritis                | ... 48     |
| Environmental sanitation | ... 71     |
| Erysipelas               | ... 43     |
| Examination centre       | ... 51     |
| Expectant mothers        | ... 28     |

## F

|                                 |        |
|---------------------------------|--------|
| Family planning                 | ... 32 |
| Feeding supplementary           | ... 30 |
| Food, Drugs & Disinfectants Act | ... 71 |
| Food condemned                  | ... 77 |
| Food samples                    | ... 71 |
| Food vending machines           | ... 77 |
| Fresh produce dealers           | ... 76 |
| Fumigation                      | ... 87 |

## G

## Page

|                   |     |    |
|-------------------|-----|----|
| Garden cities     | ... | 86 |
| Gastro-enteritis  | ... | 48 |
| General dealers   | ... | 76 |
| General mortality | ... | 14 |
| Geography         | ... | 5  |
| Gerbilles         | ... | 72 |
| Gonorrhoea        | ... | 62 |
| Guguletu Township | ... | 8  |
| Guguletu nursery  | ... | 37 |
| Gynaecology       | ... | 32 |

## L

|                    |     |        |
|--------------------|-----|--------|
| Langa nursery      | ... | 37     |
| Laundries          | ... | 69     |
| Latitude           | ... | 5      |
| Leading statistics | ... | 4      |
| Legal proceedings  | ... | 71, 74 |
| Leprosy            | ... | 46     |
| Liberman institute | ... | 37     |
| Lice               | ... | 70     |
| Licences           | ... | 75     |
| Longitude          | ... | 5      |

## H

## M

|                        |     |    |
|------------------------|-----|----|
| Hawkers                | ... | 76 |
| Health Education       | ... | 38 |
| Health indicators      | ... | 8  |
| Health inspections     | ... | 73 |
| Health visitors        | ... | 30 |
| Hepatitis              | ... | 46 |
| Home accidents         | ... | 19 |
| Hospitals              | ... | 67 |
| Housing                | ... | 85 |
| Hyman Liberman nursery | ... | 37 |

## I

|                                |     |         |
|--------------------------------|-----|---------|
| Ice cream                      | ... | 81      |
| Illegitimacy                   | ... | 13      |
| Immunisation, B.C.G.           | ... | 34      |
| Immunisation diphtheria        | ... | 33      |
| Immunisation poliomyelitis     | ... | 34      |
| Immunisation whooping cough    | ... | 33      |
| Immunisation tetanus           | ... | 33      |
| Impetigo                       | ... | 70      |
| Indigency                      | ... | 87      |
| Infant mortality               | ... | 21      |
| Infant mortality causes        | ... | 24      |
| Infant mortality legitimacy    | ... | 27      |
| Infant mortality neonatal      | ... | 26      |
| Infant mortality perinatal     | ... | 26      |
| Infant mortality post neonatal | ... | 26      |
| Infant mortality rates         | ... | 21      |
| Infant mortality seasonal      | ... | 26      |
| Infectious diseases            | ... | 43, 106 |
| Infectious diseases Hospital   | ... | 67      |
| Influenza                      | ... | 47      |
| Inspections                    | ... | 73      |
| Institutions                   | ... | 100     |

## N

|                  |     |          |
|------------------|-----|----------|
| Natural increase | ... | 101, 104 |
| Neonatal deaths  | ... | 26       |
| Neoplasms        | ... | 50       |
| Non-support      | ... | 37       |
| Notices          | ... | 73       |
| Nurseries        | ... | 36       |

## J

## O

|                       |     |        |
|-----------------------|-----|--------|
| Offences, convictions | ... | 71, 74 |
| Operating theatres    | ... | 68, 69 |
| Ophthalmia            | ... | 33, 36 |

## K

|                  |     |    |
|------------------|-----|----|
| Kew Town nursery | ... | 37 |
| Kwashiorkor      | ... | 50 |

## P

|                   |     |    |
|-------------------|-----|----|
| Pail closets      | ... | 88 |
| Pasteurisation    | ... | 81 |
| Pauper burials    | ... | 87 |
| Pediculosis       | ... | 70 |
| Peninsula         | ... | 5  |
| Perinatal deaths  | ... | 26 |
| Pest control      | ... | 72 |
| Phosphatase tests | ... | 81 |
| Plans             | ... | 72 |

## L

|                  |     |    |
|------------------|-----|----|
| Laboratory       | ... | 80 |
| Lady Buxton Home | ... | 30 |
| Langa Township   | ... | 8  |

| P                          | T              |   |     |                |
|----------------------------|----------------|---|-----|----------------|
|                            | Page           | Page                                    |     |                |
| Pneumonia                  | 47             | Test feeds                              | ... | 30             |
| Poor relief                | 87             | Townships                               | ... | 8              |
| Population                 | 8              | Trade licences                          | ... | 75             |
| Poliomyelitis              | 43, 45         | Transfers                               | ... | 8              |
| Poliomyelitis immunisation | 34             | Triplets                                | ... | 13             |
| Pollution atmospheric      | 83             | Tuberculosis                            | ... | 52             |
| Post-natal clinics         | 32             | Tuberculosis ambulatory                 | ... | 57             |
| Powered milk               | 30             | Tuberculosis attendances                | ... | 55             |
| Prenatal clinics           | 31             | Tuberculosis clinics                    | ... | 55             |
| Principal causes of death  | 15             | Tuberculosis deaths                     | ... | 53             |
| Protected infants          | 37             | Tuberculosis hospitalisation            | ... | 59             |
| Puerperal fever            | 33             | Tuberculosis mass radiography           | ... | 60             |
| <b>Q</b>                   |                | Tuberculosis meningitis                 | ... | 53             |
| <b>R</b>                   |                | Tuberculosis non-attendance             | ... | 58             |
| Rainfall                   | 4              | Tuberculosis non pulmonary              | ... | 53             |
| Raw milk                   | 79             | Tuberculosis notifications              | ... | 52, 106        |
| Reservoirs                 | 6              | Tuberculosis positive sputum            | ... | 59             |
| Refuse removals            | 88             | Tuberculosis rates                      | ... | 53, 54, 55     |
| Resident nursery           | 37             | Tuberculosis sessions                   | ... | 56             |
| Restaurants                | 76             | Tuberculosis sources of notification... | ... | 58             |
| Retreat creche             | 37             | Typhoid                                 | ... | 43             |
| Ringworm                   | 70             | Twins                                   | ... | 13             |
| Rodents                    | 72             | <b>U</b>                                |     |                |
| <b>S</b>                   |                | Unmarried mothers                       | ... | 35, 37         |
| Sampling                   | 71             | Upholsterers                            | ... | 76             |
| Sanitary defects           | 74             | <b>V</b>                                |     |                |
| Scabies                    | 70             | Vending machines                        | ... | 77             |
| Scarlet fever              | 43, 44         | Venereal disease                        | ... | 62             |
| Scavenging                 | 87             | Venereal disease attendances            | ... | 63             |
| School clinics             | 36             | Venereal disease centres                | ... | 66             |
| Serological tests          | 31             | Venereal disease teenagers              | ... | 65             |
| Servitas                   | 86             | Verminous persons                       | ... | 70             |
| Sessions                   | 29, 42, 56, 66 | Veterinary officer                      | ... | 77             |
| Sewerage                   | 7, 87          | Visiting infants                        | ... | 30             |
| Shelley street nursery     | 37             | Vital statistics                        | ... | 8, 104         |
| Small Pox vaccination      | 34             | Vi-tests                                | ... | 82             |
| Social conditions          | 6              | <b>W</b>                                |     |                |
| Social welfare             | 37             | Wards                                   | ... | 7              |
| Stables                    | 77             | Washhouses                              | ... | 74             |
| Staff                      | 89             | Water supply                            | ... | 6              |
| Still births               | 13             | Whooping cough                          | ... | 43, 46         |
| Stormwater                 | 87             | Whooping cough immunisation             | ... | 33             |
| Suburbs                    | 7              | Wind                                    | ... | 5              |
| Suicide                    | 20             | <b>X</b>                                |     |                |
| Sunshine                   | 6              | X-rays                                  | ... | 57, 60, 61, 68 |
| Supplementary feeding      | 30             | <b>Y</b>                                |     |                |
| Surgery                    | 68, 69         |   |     |                |
| Syphilis                   | 62             | <b>Z</b>                                |     |                |
| <b>T</b>                   |                |   |     |                |
| Teashop                    | 76             |   |     |                |
| Teenagers                  | 35, 65         |   |     |                |
| Temperature                | 4              |   |     |                |
| Tetanus                    | 43, 46         |   |     |                |
| Tetanus immunising         | 33             |   |     |                |



